

RENOLIT ALKORPLAN

Professional catalogue for reinforced liner installers

www.renolit.com/swimmingpool

Instructions and
Products for the
Installation and
maintenance of
Reinforced
membrane for
Swimming Pools

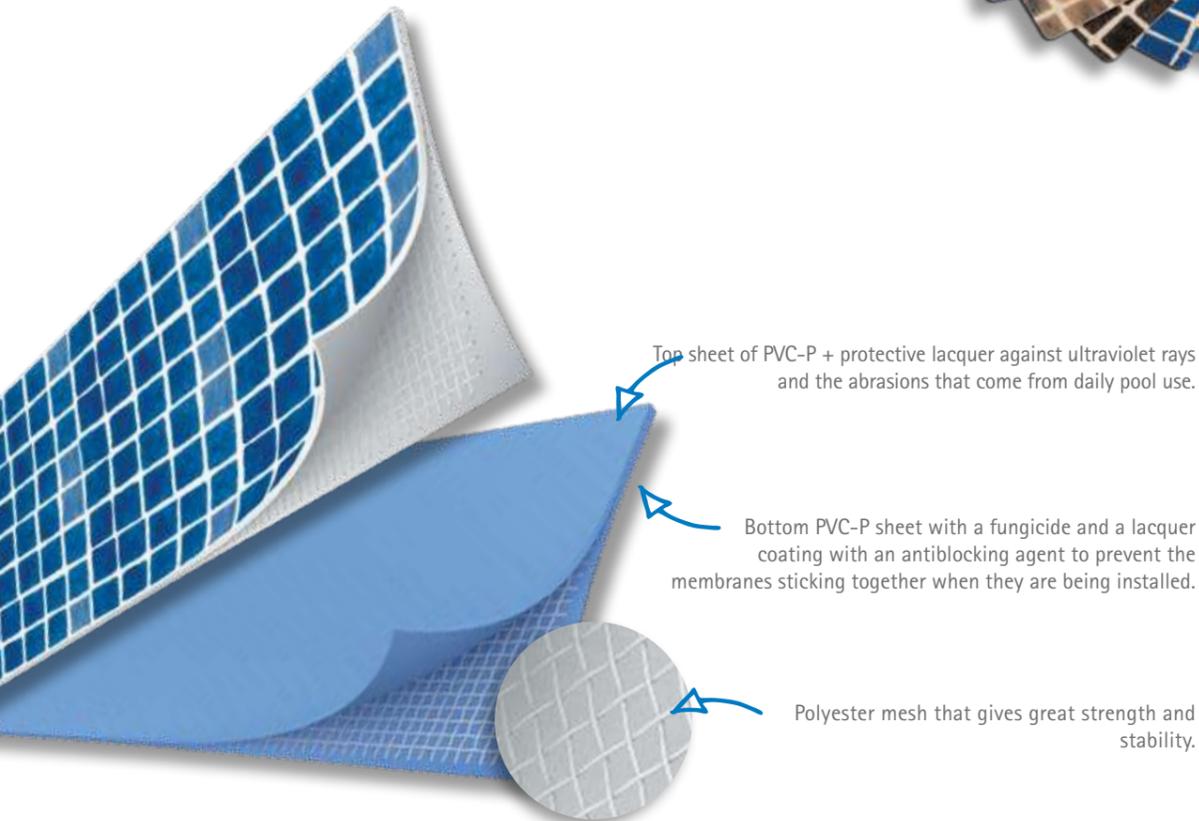
What is a reinforced membrane?

The reinforced membrane is a decorative waterproofing liner for swimming pools. It is made up of two flexible sheets of polyvinyl chloride (PVC-P), providing the pool with total, long-lasting waterproofing.

These two sheets are laminated with a core of a polyester mesh, that provides great strength and durability, without losing the elasticity and flexibility needed to adapt to any shape or corner of the pool.

The reinforced membrane produces an absolutely watertight pool with an unsurpassable pristine appearance

This is why **RENOLIT ALKORPLAN** offers a wide range of colours and designs to customise any pool and give it style and its own character.



Top sheet of PVC-P + protective lacquer against ultraviolet rays and the abrasions that come from daily pool use.

Bottom PVC-P sheet with a fungicide and a lacquer coating with an antiblocking agent to prevent the membranes sticking together when they are being installed.

Polyester mesh that gives great strength and stability.

Why is **RENOLIT ALKORPLAN** the best reinforced membrane on the market?

Top sheet

- Contains pigments of the highest quality to ensure excellent resistance to ultraviolet rays.
- Has a non-volatile plasticiser to ensure flexibility and ensure prolonged useful life.
- Contains an excellent stabiliser that makes the membrane dimensionally stable during sharp changes of temperature
- The protective lacquer protects against scratches; ultraviolet rays, and acts as a stain repellent .

Bottom sheet

A bactericide is incorporated in the sheet to prevent the proliferation of bacteria, microorganisms and algae that can stain the membrane. It is also the only membrane on the market with an antiblocking lacquer, which improves material handling during installation.

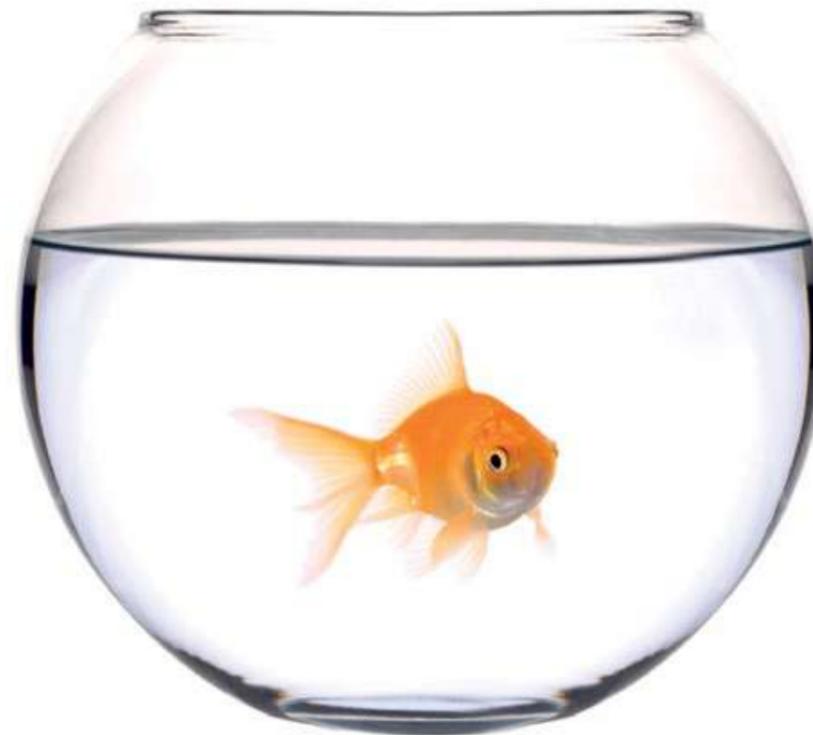
Written guarantee of watertightness

All **RENOLIT ALKORPLAN** membranes are 100% watertight with a written guarantee. **RENOLIT ALKORPLAN** is the ideal lining for avoiding leaks.

This lining system is suitable both for new build swimming pools and for refurbishments

It can be installed in half the time of other lining systems on any type of surface and onto any pre-existing material*, adapting to the shape of any pool shell.

* Except surfaces treated with bituminous laminas (asphalt fabric).



GUARANTEE
WATERTIGHTNESS
10 YEARS



Installing RENOLIT ALKORPLAN is a business opportunity



There are more than 5 million swimming pools in Europe. Half of them are over 10 years old and many of them have leakage problems...

They are crying out for renovation.

It is installed in half the time and on any other type of material



GUARANTEE
WATERTIGHTNESS
10 YEARS

RENOLIT gives a 10 year guarantee in writing on the watertightness of its membrane

More margin for the installer due to its price and quick installation



Why choose
RENOLIT
ALKORPLAN



The membrane adapts to every pool shell shape or design

A wide range of colours, designs and textures

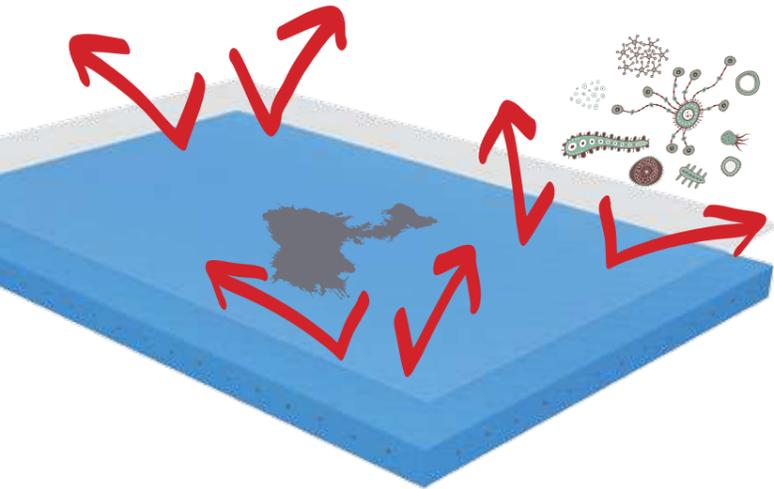


Technical support from RENOLIT at all times



RENOLIT ALKORPLAN membrane is lacquered

RENOLIT ALKORPLAN2000/3000, TOUCH, XTREME and CERAMICS membranes are coated on their top surface with an exclusive protective lacquer, the main function of which is to prolong membrane life.



Our lacquer contains a high concentration of UV absorbers, which are the most effective protection against sunlight, time and the elements.

The lacquer acts as a barrier between the membrane and the pool water, preventing migration of the plasticiser and thus avoiding premature ageing of the membrane.

The lacquer allows the sheet to remain resistant and flexible, and to keep its pristine condition for a prolonged period. It also acts as a shield against attack from microorganisms.

It repels stains caused by sun-tan oils, lime scale, organic matter and microorganisms as well.

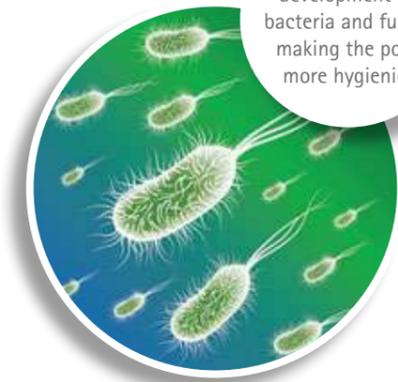
Benefits of the lacquer



Protects the liner from UV radiation and prevents premature ageing.



Repels dirt and stains, and facilitates the cleaning of the liner.

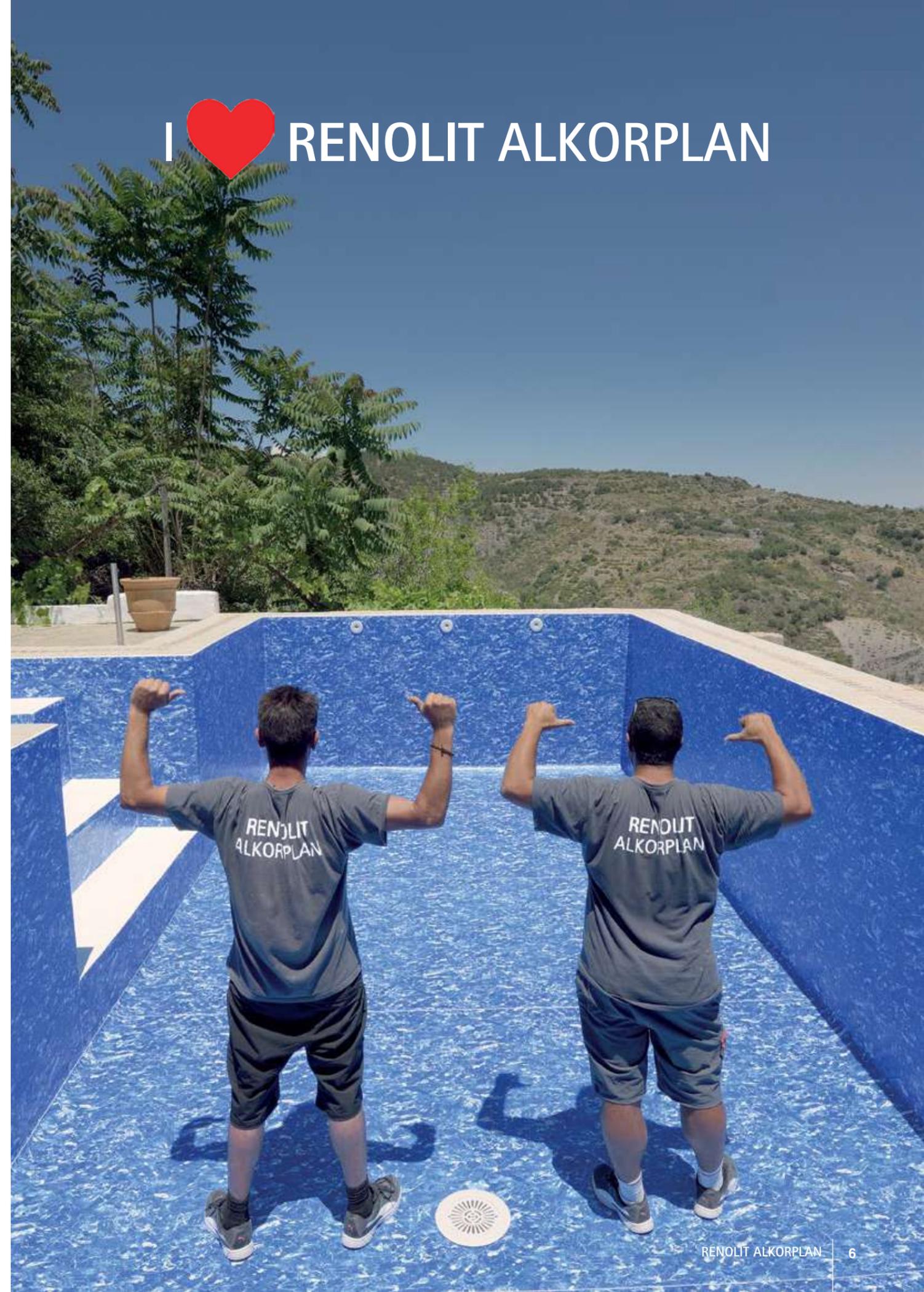


Prevents the development of bacteria and fungi, making the pool more hygienic.



Acts as a shield against abrasion and due to continual use.

I ❤️ RENOLIT ALKORPLAN



Swimming pool lining: Step by step





Steps in lining a pool



- 1 Adaptation and disinfection of the pool shell
- 2 Mounting the anchorages to the pool shell
- 3 Geotextile use
- 4 Installation of the reinforced membrane
- 5 Membrane installation tools
- 6 Subsequent membrane maintenance

1

Adaptation of the pool shell

Before starting any project it is essential to prepare the structure to be able to work on it. As with the majority of jobs, not just swimming pools, the adaptation of the structure is more time-consuming than the installation of the product itself.

In the case of the installation of reinforced membrane in a new build swimming pool, it is enough just to clean the space on arrival at the pool, mount the anchorages and disinfect it with **RENOLIT ALKORPLUS Structure Disinfectant**. On the other hand, when dealing with a swimming-pool refurbishment, the installer must carry out a few further steps:



1° Check there is no water loss in the hydraulic circuit.

It is easy to check by applying pressure to the circuit. This step is recommended since if there are leaks once the swimming-pool is finished, their origin in the circuit can be ruled out



2° Check that the pool equipment, skimmer, nozzles, drain and lights are compatible with liners.

To achieve total water tightness the pool shell equipment for liner or reinforced membrane swimming pools must have double seals. Thus for refurbishments it is necessary to check that this is the case, and if not, substitute them.



3° Repair any cracks that exist in the walls and floor.

If there are significant gresite wrinkles, cracks or joints, these must be filled and smoothed before placing the membrane so that they are unnoticeable once the swimming-pool is finished.



4° Clean debris and impurities from the pool walls and floor.

It is necessary to sand the walls and sweep, even vacuum the whole floor with the aim of making sure there isn't even the smallest blemish, since once the membrane is fitted, it'll be impossible to remove it.

1

Disinfection of the pool shell

In the case of both new pools and renovations, the pool needs to be cleaned and disinfected to avoid organic matter remaining.

If there is any organic matter remaining in the pool structure microorganisms are likely to proliferate in the dark, damp conditions that prevail. These may migrate to the surface of the membrane causing irreversible stains.

For this reason, **RENOLIT** recommends the use of **RENOLIT ALKORPLUS Structure Disinfectant** to eliminate any organic remains and prevent subsequent problems.



RENOLIT ALKORPLUS Structure Disinfectant

An effective product for cleaning and disinfecting the structure prior to installing the lining, preventing the proliferation of microorganisms between the ground and the liner and, therefore, the appearance of irreversible stains.

Reference	Description	Colour	Contents (l/bottle*)	Packaging
81052002	Pool Shell Disinfectant	Transparent	1	6 Bottles

* The product must be diluted (1litre of disinfectant to 9 litres of water) and left to dry before the installation of geotextile or membrane. This quantity will disinfect approximately 75 square metres.



Product application



Application in new pools

Any new installation may be clean but not sterile. **RENOLIT ALKORPLUS Pool Shell disinfectant**, will provide long-lasting protection to the pool structure and prevent contamination. Apply the diluted product to the pool shell and allow to dry before installing the membrane.

Application for renovation work

Existing pool shells may be already contaminated either through use or neglect after being left empty.

An initial treatment with **RENOLIT ALKORPLUS Pool Shell Disinfectant** will dissolve organic matter and disinfect the entire pool. Once applied leave it to take effect for 24 hours and then clean up the disinfected pollution with a vacuum cleaner or by flushing through the drain.

A second application of the product should be carried out and allowed to dry and. This will complete the disinfecting programme and prevent any future build up of micro-organisms.



After dilution in 9 litres of water it should be applied with brush or roller over the entire surface of the pool creating a white foam that should cover the entire surface.

Fitting the fixings to the pool

Alkormetal laminate system

The Alkormetal laminate is a 0.63 mm-thick Sendzimir zinc coated sheet in Adriatic blue which is specifically for fixing by heat welding. It is oven treated at high temperatures and fully lined. This profile has a highly resistant and durable 0.80 mm **RENOLIT ALKORPLAN** PVC membrane laminated to it.



The Alkormetal is anchored by mechanical and chemical mounting.



Chemical mounting

It is recommended that **chemical mounting** is made with polyurethane type polymers, or if the swimming pool is well levelled, any of the **RENOLIT ALKORGLUE** solutions can be used.

This mounting fulfils 2 functions: helping the installer anchor the colamine to the wall while creating a barrier stopping exterior water filtering between the membrane and the structure.

Mechanical mounting: Alkormetal application

Mechanical mounting is done with fischer type rawlplugs with flange and stainless or galvanised bits. Once the profile is mounted around the whole of the upper part of the pool shell perimeter, the geotextile is placed just below it (recommended) and the two are joined with an aluminium tape to protect the geotextile from the heat of the welding. Once the geotextile is placed on the wall, the membrane can be installed, first by anchoring it with heat spots every 50 cm, so that it remains upright and facilitates the subsequent welding over the whole profile surface.

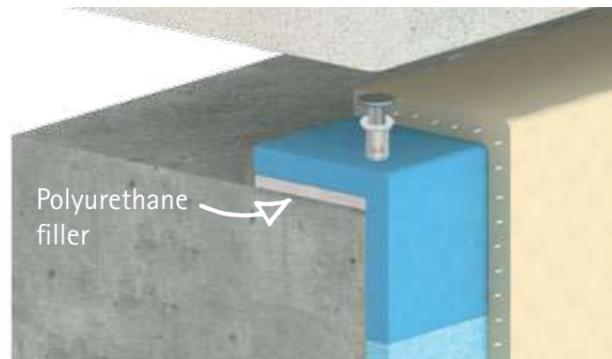
Chemical mounting



Mechanical mounting:

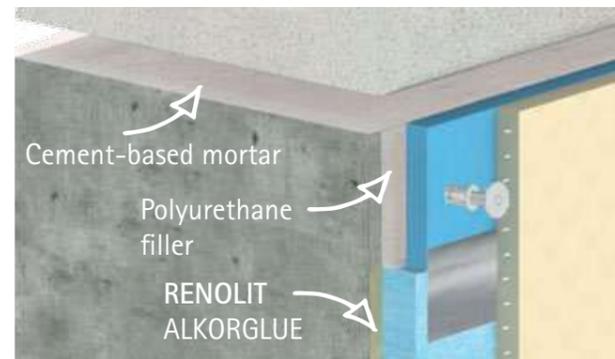


Application in new pools



In new construction, provided the top part of the pool edge has no imperfections and is at 90° to the wall, the alkormetal laminate 90° angle profile can be used, which will then be hidden under the coping stone.

Application in renovations



In renovations, so as to avoid the need to remove the coping stone, the standard colaminated profile is used if the wall is uniform, or the colaminated plate if the wall is of an irregular shape.



Alkormetal PVC/Steel laminate

Particularly suitable for fixing reinforced membrane in existing pools for renovation or for pools where the horizontal surfaces are uneven or have irregularities.



Reference	Description	Thickness (mm)	Width (cm)	Length (m)	Packaging
81170022	Standard Alkormetal Laminate	1,4	5	2	Unit

Countersunk Alkormetal laminate

Alkormetal Laminate with a U bend along the top edge and a countersunk mark every 15 cm for fixing. The section improves the appearance of the pool by hiding irregularities in the pool wall and the rivet.

Suitable for use in both new pools and renovation work.

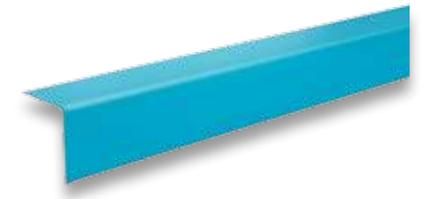


Reference	Description	Thickness (mm)	Width (cm)	Length (m)	Packaging
81170032	Countersunk Alkormetal Laminate*	1,4	3,6	2	Unit

* While stocks last.

Alkormetal Laminate 90° angle profile

A Fixing with a 90° angle, suitable for new pools where the coping has not been fixed or for renovations where the crown can be removed and its upper surface of the pool structure is completely smooth.



Reference	Description	Thickness (mm)	Width (cm)	Length (m)	Packaging
81170042	Alkormetal Laminate 90° angle profile	1,4	4,5 x 4,5	2	Unit

Alkormetal Laminate 90° angle profile

A Fixing with a 90° angle, suitable for new pools where the coping has not been fixed or for renovations where the crown can be removed and its upper surface of the pool structure is completely smooth.



Reference	Description	Thickness (mm)	Width (m)	Length (m)	Packaging (plates/pallet)
81170002	Alkormetal Laminate	1,4	1	2	30

Fitting the fixings to the pool

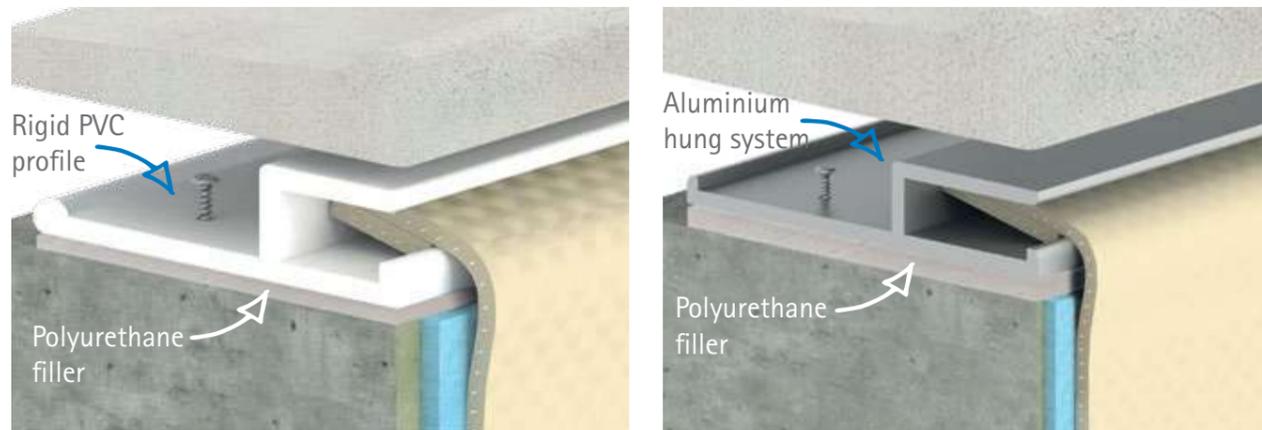
Hung, rigid PVC or aluminium profile fixing system

The hung system is an extruded PVC or aluminium anchorage that allows the mounting of the lining around the perimeter of the swimming-pool without the need for the colaminated profile. The main advantages of this system over the colaminated profile are a smoother appearance and the ease of membrane removal in the event of refurbishment or substitution.

This fixing system is suitable for both 1.50 mm reinforced membranes and 0.75 mm liners.

The extrusion is embedded between the wall and the coping, and normally, in countries where it is popular, tends to be installed directly in new-build swimming-pools, so when it comes to carrying out refurbishments, this type of anchorage is often found already fitted.

Types of hung system



We recommend the use of some type of polyurethane filler sealant to help support the profile and avoid water filtering underneath it.



Product application



PVC profile installation

Place the rigid PVC or aluminium profile in the gap found under the swimming-pool coping all along the length of the whole upper perimeter of the pool shell and fixed in place. If the swimming-pool is new, perform this process before placing the coping stone, and if it is a refurbishment, the gap must be made under the coping stone with a hammer and chisel.

Then weld a 9 mm band of **RENOLIT ALKORPLUS** to the edge of the **RENOLIT ALKORPLAN** reinforced membrane.



Application of the 9 mm strip

The membrane to be fixed must be placed face down, always ensuring that it is stretched over a surface free from items that could damage or dirty it. Hold the strip in one hand, passing it just under the roller and progressively apply heat with the welding tool by sliding the roller little by little until the strip is entirely welded to the end to be fixed.

Once the strip has been welded to the membrane, insert it into the hung system slot so that the two fit together and the reinforced membrane is fixed to the pool perimeter once it is full of water.

To unfasten the membrane, you simply need to empty the pool and push the membrane upwards slightly and it will come free.



PVC hung anchorage

50 mm French profile of white PVC in a 2 m piece suitable for both new build swimming pools and refurbishments, with the possibility of being moulded to straight or curved stretches.



Reference	Description	Width (cm)	Length (m)	Packaging
8GAYPPVC	50 mm. PVC profile	5	2	Unit

Aluminium hung anchorage

50 mm French profile of white PVC in a 2 m piece suitable for both new build swimming-pools and refurbishments.



Reference	Description	Width (cm)	Length (m)	Packaging
8GAYPALU	50 mm. aluminium profile	5	2	Unit

9 mm RENOLIT ALKORPLUS strip

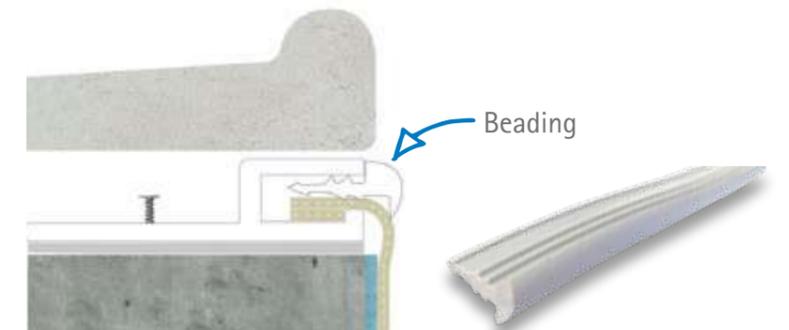
9 mm wide and 1.5 mm thick band, made of the same materials as the **RENOLIT ALKORPLAN** reinforced membrane, and with the same resistance and adhesion properties. It is used as anchorage in reinforced membrane installation in swimming-pools together with rigid PVC profile, French profile or aluminium hung.



Reference	Description	Colour	Thickness (mm)	Width (mm)	Length (m)	Packaging (rolls/box)
81048001	9 mm. strip	White	1,5	9	25	20

6 mm Locking bead

Beading to lock the reinforced membrane anchorage when the hung system is used. It also has an aesthetic finishing function.

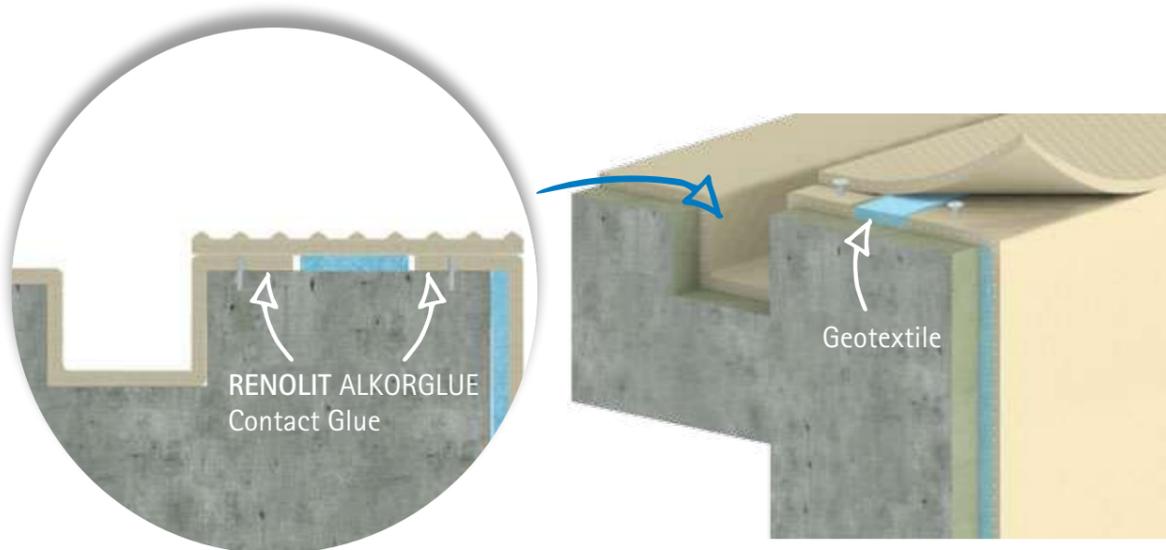


Reference	Description	Colour	Width (mm)	Length (m)	Packaging (rolls/box)
8GAYLLOW	6 mm Locking bead	White	6	50	1

Infinity pools and overflow channel

When dealing with a public or private swimming pool with an overflow channel or an "infinity" style pool, there are numerous ways to anchor the membrane and each installer uses their own methods.

The **RENOLIT** recommendation is to use the membrane itself as if it were a right-angled colaminated profile. With this system it is necessary to mount the membrane to the top of the wall chemically and mechanically to ensure optimal anchorage.



Membrane mounting



The membrane is mounted directly to the support with **RENOLIT ALKORGLUE**. **RENOLIT ALKORPLUS** expansion rivets are used on cement structures; and aluminium rivets are employed on steel structures.

These systems ensure that the membrane remains secure even with heavy bathing loads.

Advice!

To avoid subsequent problems in use, ensure that the overflow in infinity pools is completely level. An uneven channel will not drain correctly, causing problems for the pool owner.

Channel lining

With regard to the channel lining, to avoid welds in difficult places and the high leak risk, fitting the laminate as a single piece is recommended, gluing it with **RENOLIT ALKORGLUE Contact Glue** in phases to facilitate the handling of the laminate:

First, glue the entire channel and then the membrane, but not completely. You must first glue one side and set it on the wall, applying pressure so that it adheres well, then glue the area that will go in the bottom of the channel, repeating the operation, and lastly the remaining wall.

If you do not do it like this, you run the risk that it does not adhere well.



RENOLIT ALKORGLUE

Nitrile Rubber based thermo-adhesive

RENOLIT ALKORGLUE is a toluene-free, Nitrile Rubber based glue. The volatile solvent make is quick-drying and it has high resistance to water, ageing and plasticisers.

These factors make it especially suitable for mounting the membrane on cement and mortar, and on stairs and corners even when damp.

It has the added advantage of being reactivated by a hot-air welder, for those occasions when the membrane has been left open for long periods.



It is ideal for stairs and aesthetically sensitive areas, as it does not produce air bubbles that are unsightly and prevent complete adhesion.

The quick-drying and reactivating properties make it the most suitable product for those occasions when speed of installation is necessary or when completing areas that have been left unfinished.

Reference	Description	Colour	Contents (lt.)	Packaging
81043002	Quick-drying glue	Whiteish	5	1 drum

The adhesive should be applied at approximately 300gr/m² (150 g/m² on each substrate).



Product application



For anchorages

The glue must only be applied to the support. The surface must be free from dust and impurities. Once the glue is dry, the reinforced membrane is placed on top and heat is applied to both with a hot-air gun.

For mounting the membrane on stairs

The glue is applied only to the structure with a roller. The surface must be free from dust and any other debris. This glue dries very quickly (2 to 5 minutes) so do not delay contact between the two elements for long.

The glue must not be applied on the overlap where thermo-fusion will later take place, since it will hinder homogeneous welding.





RENOLIT ALKORGLUE Neoprene-based contact glue

The RENOLIT ALKORGLUE 81045 glue is a neoprene based contact adhesive. It is toluene-free and environmentally friendly.

It will form a perfect bond between ALKORPLAN pool liner membrane, and geotextile 81006 to metal, wood, rigid PVC, concrete and other surfaces.

It is not suitable for use in contact with expanded polystyrene.



Reference	Description	Colour	Contents (lt.)	Packaging
81045001	Neoprene-based contact glue	Yellowish	5	1 drum

RENOLIT ALKORGLUE 81045 for pools is a highly versatile contact adhesive suitable as a general purpose adhesive for the installation of reinforced membrane and other accessories such as geotextile. Unlike many equivalent industrial-use contact glues, it is Toluene-free. The product is ready for use and does not require additional solvents. Utensils should be cleaned with acetone or THF solvents for metallic elements.



Product application



Stir/mix the adhesive before use. Apply to both surfaces to be joined using a spatula, brush or roller. You must wait for the glue to completely dry - when touching it does not raise "strands"-, before sticking the two surfaces. From that moment you have 30-60 minutes to proceed with the union of the surfaces, depending on ambient temperature and relative humidity. Apply uniform pressure over the whole surface to be glued. The slow drying of this glue allows small corrections to be made during the installation of the reinforced laminate.

Once the 30-60 minutes have passed, it will no longer be possible to make any more corrections. You must not apply the contact glue on the overlap where thermo-fusion will later take place since this will hinder a homogeneous weld. If the product accidentally stains the visible face of the laminate, it can be removed without the use of solvents.

The importance of geotextile use

RENOLIT ALKORPLAN geotextile is an innocuous blue polypropylene 400/gram² mesh, exclusive to **RENOLIT**. It is made of fungicide treated synthetic fibres whose main value is mechanical resistance to perforation and traction.

It is mainly used as separation between the swimming pool shell and the **RENOLIT ALKORPLAN** reinforced membrane.

Its main function is to protect the lining from erosion caused by the structure, thus lengthening the life of the reinforced membrane.

RENOLIT ALKORPLUS Fungicidal geotextile

400 gm light blue polypropylene geotextile felt, treated with natural anti-bacterial additives of metallic-ion, for a continuous anti-bacterial action.

It is used as a protective layer between the **RENOLIT ALKORPLAN** membrane and the swimming pool surface, avoiding the proliferation of bacteria, fungus and microorganisms, and reducing the relief of irregular surfaces that the swimming pool may have before applying the laminate.

It gives a much more agreeable sensation for the bather when they walk on the membrane.



Reference	Description	Raw material	Colour	Width (m)	Length (m)	Weight (g/m ²)
81006005	RENOLIT ALKORPLAN Fungicidal geotextile *	Polypropylene	Light blue	1,50	50	400
81006006	RENOLIT ALKORPLAN Fungicidal geotextile	Polypropylene	Light blue	1,65	50	400
81006007	RENOLIT ALKORPLAN Fungicidal geotextile	Polypropylene	Light blue	2,00	50	400

* Specifically for butt welding.

Why is the use of **RENOLIT ALKORPLAN** geotextile also recommended?

- Thanks to its fungicidal treatment, it avoids the proliferation of microorganisms between the reinforced membrane and the pool shell caused by the moisture of the ground or the pre-existence of organic elements, and thus the risk of transferral to the swimming pool water.
- Visually softens possible irregularities in the support.
- Adds comfort to the bathers steps.
- Acts as a heat insulator keeping the cold or the heat in the pool for longer, gaining up to 2 degrees.

Its use is highly recommended, especially if the pool is going to have a smooth coloured reinforced membrane installed as it reduces irregularities in the support.





Application of RENOLIT ALKORPLAN geotextile on the walls



1 Apply **RENOLIT ALKORGLUE** neoprene-based contact glue to the wall in a 20 cm band just below the mounting profile avoiding touching it, Then also apply the glue to the part of the geotextile to be stuck and leave to dry until the solvents have evaporated. One way of knowing when they have evaporated is when neither surface is sticky to the touch.



2 Install the **RENOLIT ALKORPLAN** geotextile below the mounting profile, applying pressure to the glued area. Fit the geotextile to the shape of the wall by applying pressure with the hands to avoid the formation of wrinkles.



3 The geotextile must never touch the mounting profile, if this happens, before the installation of the membrane, remove the excess. Although the glue has dried, it is wise to wait and do other jobs before installing the membrane on the walls to let the solvents that may remain continue evaporating. This avoids the formation of gas bubbles beneath the membrane.



4 Once the geotextile is installed, locate the positions of the swimming pool accessories and cut away the geotextile covering them along their outer perimeter.

Advice!
To avoid burning when welding the membrane, because of its proximity to the heat, fixing a strip of adhesive aluminium tape is recommended in the area that will have direct contact with the welding gun.



Application of RENOLIT ALKORPLAN geotextile on the floor



1 Before placing it, clean the floor of the swimming pool well so there are no stones, rough areas or other irregularities. It is a good idea for the floor to be as dry as possible to avoid excess moisture.



2 Cut the geotextile to the dimensions of the floor, making sure it is not mounted over the laminate or other geotextile areas.



3 Fix it to the floor by applying **RENOLIT ALKORGLUE** contact glue since it is a very light material and the wind could lift it or move it.



4 In the case of butt welds, once the geotextile is in place, cut away and remove the material from where the top weld will go and where the welding will be done. In this case the geotextile helps to achieve the final visual flatness of the floor.

Advice!
Once the geotextile is fitted on the floor, immediately fit the membrane on top to avoid any organic element or wind-bourne dirt getting back into the pool shell and having to sweep or vacuum again, or it could rain and wet the felt.





Operatives clearing the geotextile from the area where the butt welding band will go.

RENOLIT ALKORPLAN reinforced membrane

The **RENOLIT ALKORPLAN** reinforced membrane is not just a watertightness solution for a swimming pool, it is also the most visible and striking feature, and as such, choosing a particular colour or design completely changes the aesthetic appearance of the swimming pool and the colour of the water, so it becomes a decisive and fundamental element for the pool owner.

RENOLIT offers a wide range of linings and options, suited both to the aesthetic requirements and the most technical demands of resistance and durability.

All the reinforced laminates for swimming pool linings that we offer in this catalogue are manufactured with virgin raw materials, high quality pigments and non-volatile stabilisers, and of course, everything is lacquered and with the **RENOLIT** guarantee!

These are the different product ranges you can choose from:

RENOLIT ALKORPLAN 2000

Lacquered 1.5 mm single colour reinforced laminate, with highly resistant pigments and durable plasticisers designed to last in a swimming pool.

RENOLIT ALKORPLAN 3000

Double-lacquered printed 1.5 mm reinforced laminate available in exclusive designs to decorate at the same time as waterproof.

RENOLIT ALKORPLAN NATURAL POOL

1.5 mm single colour reinforced laminate specifically for biopools. Without fungicidal treatment, suitable for pools containing plants or animals.

RENOLIT ALKORPLAN TOUCH

2 mm reinforced laminate, printed and with relief, inspired by nature to give character and personality to swimming pools.

RENOLIT ALKORPLAN XTREME

1.5 mm single colour laminate with an extended colour, stain and water tightness warranty, recommended for problematic pools with a large number of bathers.

RENOLIT ALKORPLAN CERAMICS

2 mm laminate, printed and embossed, inspired in the mosaics of classical Greece.



Rely on it.

4

Installing the reinforced membrane

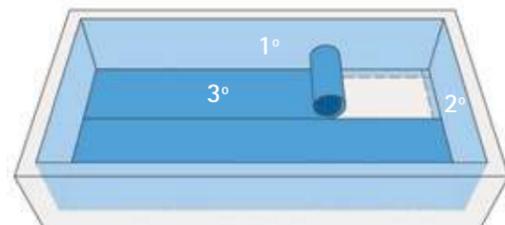
Placing the reinforced membrane

It is essential to organise the work well and lay out the pool before starting work. The sections necessary to line the pool should be calculated to avoid major material losses, but without sacrificing pool watertightness or aesthetics.

You should conceal joints and welds by siting them in the corners of the pool or in the least visible areas.

Order of placing the sections in a standard pool:

- 1° Lining the pool walls.
- 2° Welding the vertical walls and forming the angles.
- 3° Fixing the walls to the bottom.
- 4° Lining the pool bottom.
- 5° Welding the pool walls to the bottom.



Membrane application



Planning and making the cuts

To limit losses and the number of welds as far as possible, make an initial layout of the cuts to be made. To do this you need:

- To take precise measurements on site and apply them to the roll to be cut.
- The cuts will be made with the aid of scissors and a curved edge cutter, tracing a guide line.
- In case of free-form pools, the cuts will depend on the pool shape.
- Measure twice, cut once.



Installing the sheet on the walls

- The pool walls need to be lined independently.
- Maintain an overlap of at least 5 cm on one of the sheet sides for welding the vertical walls.
- Maintain an overlap of at least 10 cm from the wall sheet to the pool bottom to weld it to the bottom sheet later.
- It is better to do the welding of the side walls in the vertical angles with the aim of achieving a better aesthetic affect (the use of RENOLIT ALKORGLUE contact glue is recommended to fix the membrane into the corners).



Installing the sheet on the pool bottom

- Cover the bottom with rolls laid widthways or longitudinally, so as to minimise the welds.
- During the installation on the walls, a recommended overlap of 10 cm will have been left at the angle with the pool bottom, to be laid below the bottom sheet for welding together at the meeting point.
- In case of a steep slope, fix the wall overlap to the bottom every 15 cm using expansion rivets to prevent the bottom membrane from moving towards the deeper part of the pool.



Fixing the reinforced membrane to the floor

For any swimming pool, but especially those with an irregular shape or slope, RENOLIT recommends that once the realignment is done, fix the bottom edge of the membrane to the bottom of the pool with RENOLIT ALKORPLAN expansion rivets.

In this way, if the installer has tensioned and fitted the membrane correctly, it ensures that there will be no subsequent wrinkles in the walls since the tension produced by the pressure of the water will not affect the membrane. It will also avoid the professional having to install the pool shell fittings when the pool is filling up and having to adapt the membrane then.

Expansion rivets

Stainless steel impact expansion rivets for mortar indicated for the fixing of the reinforced membrane to the floor of the pool and for use in the anchorages of the overflow channel as supplementary fastening to the contact glue or polyurethane filler.

Reference	Description	Packaging (u./box)
81051100	Expansion rivets	100



RENOLIT ALKORPLAN Unicolor Range

- Easy installation on any material
- In half the time of other systems
- Good adaptability to irregular shapes
- Minimum maintenance
- Long-lasting
- Waterproofing guaranteed for 10 years



RENOLIT ALKORPLAN2000

High quality membranes coated with a lacquer that gives them great UV stability, resistance to aging and weathering, and with the addition of fungicides and bactericides to prevent bacterial growth that make it rot-proof. It is available in 7 different attractive colours.



RENOLIT ALKORPLAN Non-Slip

High-quality membranes with an exclusive emboss. Suitable for installation in the slippery areas inside and outside the pool to avoid falls and accidents. It comes in seven attractive colours to match the RENOLIT ALKORPLAN2000.

**GUARANTEE
WATERTIGHTNESS
10 YEARS**

	Width (m)	Thickness (mm)	Length (m)	Weight/m ² (kg)	Weight of roll (kg)	Packaging (rolls x pallet)
2000	1,65	1,5	25	±1,9	±80	8
2000	2,05	1,5	25	±1,9	±95	8
2000 Non-Slip	1,65	1,8	12,6	±2,3	±48,5	10



RENOLIT ALKORPLAN2000	Ref.	Width (m)	Finish
White	35216202	1,65	Lacquered
White	35216201	2,05	Lacquered
White Non-Slip	81116501	1,65	Non-Slip

RENOLIT ALKORPLAN2000	Ref.	Width (m)	Finish
Sand	35216210	1,65	Lacquered
Sand	35216211	2,05	Lacquered
Sand Non-Slip	81116505	1,65	Non-Slip

RENOLIT ALKORPLAN2000	Ref.	Width (m)	Finish
Light Blue	35216205	1,65	Lacquered
Light Blue	35216208	2,05	Lacquered
Light Blue Non-Slip	81116504	1,65	Non-Slip

RENOLIT ALKORPLAN2000	Ref.	Width (m)	Finish
Adriatic Blue	35216203	1,65	Lacquered
Adriatic Blue	35216207	2,05	Lacquered
Adriatic Blue Non-Slip	81116502	1,65	Non-Slip

RENOLIT ALKORPLAN2000	Ref.	Width (m)	Finish
Caribbean Green	35216204	1,65	Lacquered
Caribbean Green	35216206	2,05	Lacquered
Caribbean Green Non-Slip	81116203	1,65	Non-Slip

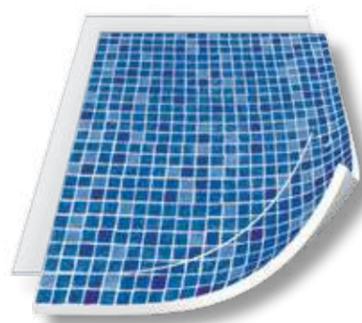
RENOLIT ALKORPLAN2000	Ref.	Width (m)	Finish
Grey	35216236	1,65	Lacquered
Grey	35216233	2,05	Lacquered
Grey Non-Slip	81116506	1,65	Non-Slip

RENOLIT ALKORPLAN2000	Ref.	Width (m)	Finish
Dark Grey	35416227	1,65	Lacquered
Dark Grey	35416226	2,05	Lacquered
Dark Grey Non-Slip	81122527	1,65	Non-Slip

RENOLIT ALKORPLAN Printed with lacquer

RENOLIT ALKORPLAN3000 is the high-end RENOLIT range. It offers the same quality guarantees as the RENOLIT ALKORPLAN2000 but with contemporary designs and textures.

All RENOLIT ALKORPLAN3000 membranes are protected by a super resistant multi-layer of lacquer that extends the life of the membrane and prevents premature aging.



RENOLIT ALKORPLAN3000

High quality membrane printed with exclusive designs, coated with a special protective multi-layer lacquer that protects against:

- Abrasion or scratching caused during use.
- Appearance of algae and bacteria.
- Protection from UV rays.



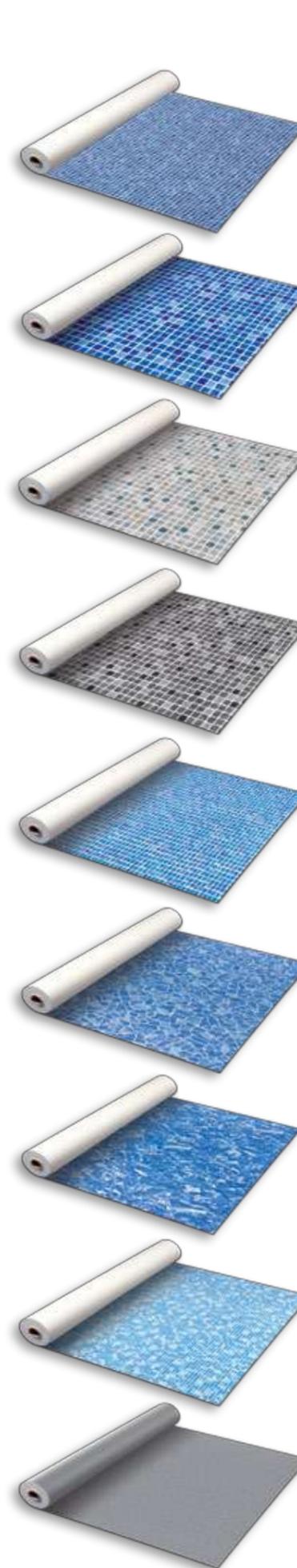
RENOLIT ALKORPLAN Non-Slip

High-quality membranes with an exclusive emboss. Suitable for installation in the slippery areas inside and outside the pool, as steps, deck-level pools, ladders, walkways, and diving platforms.

It comes in three attractive designs to match the RENOLIT ALKORPLAN3000 Persia Blue, Bysance Blue and Carrara models.

GUARANTEE
WATERTIGHTNESS
10 YEARS

	Width (m)	Thickness (mm)	Length (m)	Weight/m ² (kg)	Weight of roll (kg)	Packaging (rolls x pallet)
3000	1,65	1,5	25	±1,9	±80	8
3000 Non-Slip	1,65	1,8	12,6	±2,3	±48,5	10



RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Blue Greek	35417225	1,65	Lacquered

RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Persia Blue	35417217	1,65	Lacquered
Persia Blue Non-Slip	81122317	1,65	Non-Slip

RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Persia Sand	35417220	1,65	Lacquered

RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Persia Black	35417222	1,65	Lacquered

RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Mosaic	35417202	1,65	Lacquered

RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Carrara	35417214	1,65	Lacquered
Carrara Non-Slip	81122314	1,65	Non-Slip

RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Marbre	35417213	1,65	Lacquered

RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Bysance Blue	35417209	1,65	Lacquered
Bysance Blue Non-Slip	81122309	1,65	Non-Slip

RENOLIT ALKORPLAN3000	Ref.	Width (m)	Finish
Platinum	35417402	1,65	Lacquered

Installing the reinforced membrane

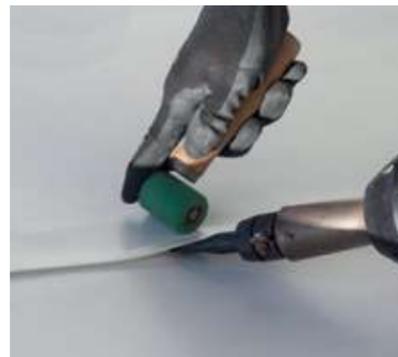
How to make a correct weld



Before starting to weld, clean the welding tool nozzle with a wire brush and check that the membrane to be welded is clean and dry with a clean, dry cloth or with kitchen roll.



Position the two membranes to be welded with an overlap of approx. 5 cm and check that the two are placed from end to end in the exact position where you want to weld them, so that they do not twist when you start to weld.



Welding must be carried out using a silicone roller, ensuring that the whole roller width is in contact with the membrane at all times.

Double welding

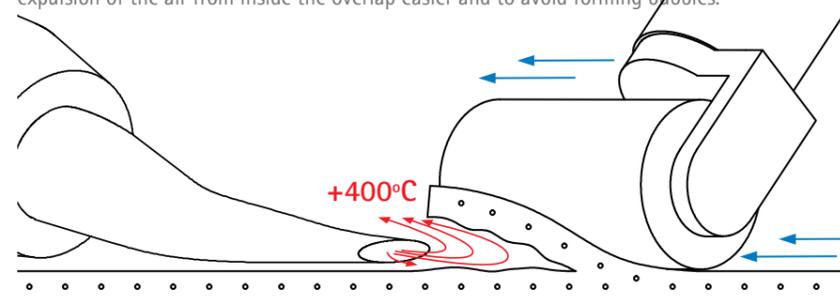
Although a single weld is sufficient to achieve a perfect joint if performed correctly, it is advisable to ensure the watertightness of the installation by making a double weld; one on the inside of the overlap and the other at the outside, just on the edge.

1st Weld

This weld is made to join the inner edge of the bottom membrane to the top membrane. The purpose of this first weld is to seal the inner edge and to create a closed space in the overlap to prevent air from escaping when the final weld is made. As it is a light weld, it can be made with a roller or by hand. If it is made with a roller, it is not necessary to press too hard.

2nd Weld

This weld needs to be made by injecting hot air into the closed space created previously. The welding tool should not be inserted fully into the overlap as this is not necessary and it can leave an escape route for the hot air. It should not be pointed directly at either the bottom or the top membrane so as to avoid burning them. Its sole function is to allow the cavity to be filled with hot air and for it to be this air, which is trapped at very high temperatures, that melts the two membranes and so makes the final joint across the whole overlap surface. It is not necessary to press too hard with the roller in this step either, as its function is not so much to join the membranes as, above all, to expel the hot air present in the overlap to the outside so that it is not completely trapped. The roller should be positioned at around 2 or 3 cm from the nozzle and should always be moved at an angle of 45° to the welding tool to make expulsion of the air from inside the overlap easier and to avoid forming bubbles.



1st Welding on the inside of the overlap



2nd Welding on the outside of the overlap

The integrity of hot-air welds must be checked with a screw driver or scribe. Any gaps must be rewelded.

RENOLIT ALKORPLUS Seam sealer

Welds must be sealed with PVC to protect the weld and improve the appearance.

Liquid PVC is not a substitute for a hot air weld, however it will give some protection to imperfectly welded seams and smoothes the step of the overlap, reducing deposits along the weld line.

Reference	Description	Colour	Contents (g/drum*)	Packaging
81037001	Seam Sealer	Transparent	900	6 Drums
81035001	Seam Sealer	White	900	6 Drums
81054001	Seam Sealer	Sand	900	6 Drums
81032001	Seam Sealer	Light Blue	900	6 Drums
81039001	Seam Sealer	Adriatic Blue	900	6 Drums
81034001	Seam Sealer	Green	900	6 Drums
81029001	Seam Sealer	Light Grey	900	6 Drums
81028002	Seam Sealer	Platinum	900	6 Drums
81024001	Seam Sealer	Dark Grey	900	6 Drums

* A drum of product will seal around 100 m².



Seam Sealer application bottle

Reference	Description	Packaging
81145001	Seam Sealer application bottle	1 bottle
81245001	Dosing cap	1 cap
81445001	Seam Sealer application bottle + dosing cap kit	5 bottles (standard cap) + 20 dosing caps
81445002	Seam Sealer application bottle + dosing cap kit	5 bottles (standard cap) + 5 dosing caps



Use



Pour the necessary amount of seam sealer into the applicator container to enable you to carry out sealing. Obviously, smoking while performing these operations is strictly prohibited. Close the tin with care if it is not yet empty, to prevent the solvent from evaporating. Cut the applicator pouring spout obliquely, never horizontally. Apply the liquid PVC to the weld line. A PVC "bead" will be formed on the welded seam; leave this to dry for half an hour. The liquid PVC can only be applied to a perfectly clean and dry weld. Clean the pouring spout regularly to remove possible obstructions and drops.



No detached tiles or crumbling grouting!!



This liner has a Category "C" Non-Slip certificate on all models, thus it is not necessary to use any additional anti-slip membrane.



New

RENOLIT ALKORPLAN CERAMICS



It looks like... but isn't!

RENOLIT ALKORPLAN CERAMICS a 2mm embossed pool liner with the aesthetic appeal and texture of the mosaic tiled designs of Greek Myths.

With the aesthetics of classic Greece, **RENOLIT ALKORPLAN CERAMICS** is one of the most thicker, resistant and lasting liners of the market.

Advantages of the system:

- 1 Guaranteed watertight.
- 2 Easier to install than tiles.
- 3 No fallen tiles or crumbling grout.
- 4 Minimum maintenance.
- 5 The 2mm thickness creates a more durable and resilient membrane.
- 6 Easy to weld with an immaculate finish.

Ideal for new pools and for renovations!

It is installed over the existing substrate in half of the time than other linings. It guarantees the watertightness for 10 years with minimal maintenance!

RENOLIT ALKORPLAN CERAMICS



No detached tiles or crumbling grouting!!

It looks like... but isn't!

Selene

Silver-winged goddess of the moon: she captivated the hearts of the classic poets and now dazzles in the pools that have her. Selene, with a white lunar finish will captivate those who contemplate her celestial waters, clear as the sky on a summer's day.



Etna

The Nymph that gave name to a volcano where the rays of Zeus, God of all the Gods, were forged. This lining is restrained and elegant, making the pools spectacular and majestic, appropriate for a god.



Sofia

Goddess of wisdom and source of all knowledge: magical, poetic and mysterious. This salmon toned lining is perhaps the most sophisticated, in an innovative colour in the swimming pool world, it offers a display of delicate turquoise blue in the water.



Atenea

Goddess of reason and the protector of Athens, a city bathed in the Mediterranean Sea in which this lining was inspired, an intense blue, so warm, so deep, so ours. Atenea gives the water an unequalled shine and subtlety.



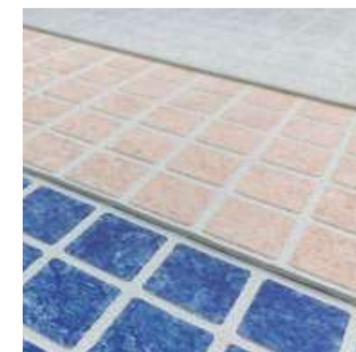
RENOLIT ALKORPLAN CERAMICS



No detached tiles or crumbling grouting!!

It looks like... but isn't!

RENOLIT ALKORPLAN CERAMICS Range



	Ref.	Width (m)	Thickness (mm)	Length (m)
	Sofia 35617201	1,65	2,0	21
	Atenea 35617202	1,65	2,0	21
	Selene 35617203	1,65	2,0	21
	Etna 35617204	1,65	2,0	21



Welding options

The welding finish is very discreet thanks to its white joints. Also, if butt welding is done, it can be practically invisible.



Overlap welded seams



Butt welded seams

RENOLIT ALKORPLAN CERAMICS liquid PVC

If the pattern on adjacent sheets is lined up correctly it is not essential to use seam sealer on the welds. However a white liquid PVC is produced specifically for RENOLIT ALKORPLAN CERAMICS.

Liquid PVC is not a substitute for the hot air welds required for a watertight finish.

Reference	Description	Colour	Contents (g/drum*)	Packaging
81021001	Seam Sealer	White	900	6 Drums

* A drum of product will seal around 100 m².



RENOLIT ALKORPLAN TOUCH

TOUCH is the new reinforced membrane ALKORPLAN 2 mm thick. It is the strongest and most resistant on the market and has a natural finish.

TOUCH Membranes have exclusive prints and a 3D embossing that makes them unique, tactile, and visually exciting.



GUARANTEE
WATERTIGHTNESS
10 YEARS

RENOLIT ALKORPLAN

The big difference between TOUCH and the rest of the reinforced membranes on the market is its thickness, at 2 mm. This makes it the strongest and most durable out there. The other big difference from what is currently on the market is its great appeal. TOUCH is the first reinforced membrane with relief emulating elements found in nature, such as slate, granite or sand.

RENOLIT ALKORPLAN Non-Slip

A high-quality membrane with exclusive embossing and ELEGANCE print. Suitable for installation in slippery areas inside and outside the pool so as to prevent falls and accidents.

	Width (m)	Thickness (mm)	Length (m)	Weight/m ² (kg)	Weight of roll (kg)	Packaging (rolls x pallet)
TOUCH	1,65	2	21	±2,5	±52,3	4
TOUCH Non-Slip	1,65	1,8	10	±2,0	±31,5	5



SLIP RESISTANCE Category	TOUCH	Ref.	Width (m)	Finish
C	Authentic	35517402	1,65	Lacquered

SLIP RESISTANCE Category	TOUCH	Ref.	Width (m)	Finish
C	Relax	35517401	1,65	Lacquered

SLIP RESISTANCE Category	TOUCH	Ref.	Width (m)	Finish
B	Elegance	35517301	1,65	Lacquered
C	Elegance Non-Slip	81122401	1,65	Non-Slip

SLIP RESISTANCE Category	TOUCH	Ref.	Width (m)	Finish
C	Vanity	35517409	1,65	Lacquered

SLIP RESISTANCE Category	TOUCH	Ref.	Width (m)	Finish
C	Sublime	35517407	1,65	Lacquered

SLIP RESISTANCE Category	TOUCH	Ref.	Width (m)	Finish
C	Prestige	35517403	1,65	Lacquered

RENOLIT ALKORPLAN TOUCH Authentic



RENOLIT ALKORPLAN TOUCH Relax



RENOLIT ALKORPLAN TOUCH Elegance



RENOLIT ALKORPLAN TOUCH Vanity



RENOLIT ALKORPLAN TOUCH Sublime



RENOLIT ALKORPLAN TOUCH Prestige



TOUCH Seam sealer

Liquid PVC specifically for finishing the membrane welds of the **RENOLIT ALKORPLAN TOUCH**. Necessary for overlap and butt welds. The color and texture are designed to match the **RENOLIT ALKORPLAN TOUCH** membranes and its improved formulation gives it a permanent resistance to fading.

Reference	Description	Volume (g/drum)	Packaging (n° drums)
81023003	Liquid PVC AUTHENTIC	900	6
81023002	Liquid PVC RELAX	900	6
81023001	Liquid PVC ELEGANCE	900	6
81023004	Liquid PVC VANITY	900	6
81023005	Liquid PVC SUBLIME	900	6
81023006	Liquid PVC PRESTIGE	900	6

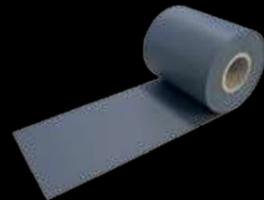


* A drum of product will seal around 100 m².

Butt weld backing strip

A strip of membrane for backing butt welds. Butt welds are recommended for **TOUCH** pool floors to give an impeccable visual finish.

Used in conjunction with a recess cut into the geotextile it will give a flat finish which will provide a more enjoyable sensation for bathers when walking on the floor.



Reference	Description	Thickness (mm)	Width (cm)	Length (m)	Colour	Packaging (rolls x pallet)
81113T20	Butt weld backing strip	1,5	15	20	Dark grey	72

RENOLIT ALKORPLUS Fungicidal geotextile

400 gm light blue polypropylene geotextile felt, treated with natural anti-bacterial additives of metallic-ion, for a continuous anti-bacterial action. It is used as a protective layer between the **RENOLIT ALKORPLAN** membrane and the swimming pool surface, avoiding the proliferation of bacteria, fungus and microorganisms, and reducing the relief of irregular surfaces that the swimming pool may have before applying the laminate. It gives a much more agreeable sensation for the bather when they walk on the membrane.



Reference	Description	Raw material	Width (m)	Length (m)	Colour	Weight (g/m ²)
81006005	RENOLIT ALKORPLAN Fungicidal geotextile *	Polypropylene	1,50	50	Light blue	400
81006006	RENOLIT ALKORPLAN Fungicidal geotextile	Polypropylene	1,65	50	Light blue	400
81006007	RENOLIT ALKORPLAN Fungicidal geotextile	Polypropylene	2,00	50	Light blue	400

* Specifically for butt welding.

RENOLIT ALKORGLUE Neoprene based contact glue

The **RENOLIT ALKORGLUE 81045** glue is a neoprene based contact adhesive. It is toluene-free and environmentally friendly. It will form a perfect bond between **ALKORPLAN** pool liner membrane, and geotextile 81006 to metal, wood, rigid PVC, concrete and other surfaces.

It is not suitable for use in contact with expanded polystyrene.



Reference	Description	Colour	Contents (lt.)	Packaging
81045001	Neoprene-based contact glue	Yellowish	5	1 drum

Butt welding

The reason for this type of welding is that as **TOUCH** is a 2 mm membrane, the thickest and strongest on the market, the step produced after making a traditional overlap weld is much more obvious than in a normal membrane. It is clear to see and feel and is even a place where dirt can accumulate more easily. Making a butt weld only aims to achieve a more aesthetic finish, as if it is made correctly, the weld will be invisible and it will not even be necessary to use liquid PVC to seal it. We recommend it for that reason, especially in the pool bottom area, as this is where the welds are more visible.

Butt welding is not mandatory, in fact many installers do not do it and there is no problem in this, as making a traditional overlap weld does not in any way affect the watertightness of the membrane.

Butt welding steps to follow

To do butt welding various elements are necessary that are not necessary for traditional overlap welding:

- The **RENOLIT ALKORPLAN** fungicidal geotextile felt.
- **RENOLIT ALKORGLUE** contact glue.
- The butt welding band.
- **RENOLIT ALKORPLAN TOUCH** reinforced membrane.



Cover the whole of the pool bottom with the geotextile, fixing it to the bottom with contact adhesive at the ends. Then lay out the reinforced membrane so as to calculate where the welds will occur.



Lay the butt welding backing strip in the exact place where membrane welding is expected to take place, attempting to ensure that this occurs in the centre of the strip.



Use a pencil or drawing pen to mark on the geotextile the section to be cut where the welding backing strip will be located. Remove the butt welding backing strip and cut the geotextile.



Fit the welding backing strip into this space and glue it.



Weld the membrane in the centre of the welding backing strip with a double weld (inside-outside).



Place the second membrane alongside the first without overlapping them and weld it with a double weld as well. Finish off the weld by heating a brass roller to seal the joint.



The reason for using the geotextile and the backing strip is to achieve a completely flat pool floor where the membrane is to be supported and so that the strip does not show under the membrane once the weld is made and the pool is filled.

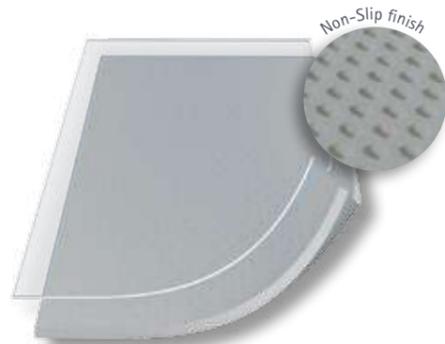
RENOLIT ALKORPLAN XTREME

Pools that stand up to anything!!



RENOLIT ALKORPLAN XTREME

High strength, beautiful membranes suitable for public or private pools with large bathing loads or which need to withstand very aggressive disinfection treatments. They are also suitable for pools with problems where other linings have not worked. Available in 6 different colours.



RENOLIT ALKORPLAN XTREME Non-slip

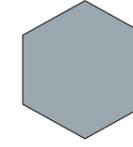
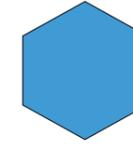
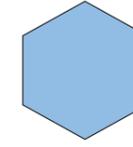
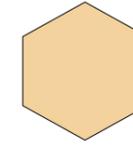
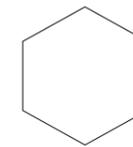
High strength, beautiful membranes made from the same materials as **RENOLIT ALKORPLAN XTREME** designed to line slippery or shallow parts of the pool to prevent falls or accidents. Available in 6 new colours.

Guarantee
5 Years
 On color

Guarantee
5 Years
 Anti stains

Guarantee
15 Years
 Watertightness

	Width (m)	Thickness (mm)	Length (m)	Weight/m ² (kg)	Weight of roll (kg)	Packaging (rolls x pallet)
XTREME	1,65	1,5	25	±1,9	±81,3	4
XTREME Non-Slip	1,65	1,8	10	±2,3	±43,0	5



XTREME	Ref.	Width (m)	Finish
Ice	35516241	1,65	Lacquered
Ice	35516341	2,05	Lacquered
Ice Non-Slip	81516241	1,65	Non-Slip

XTREME	Ref.	Width (m)	Finish
Sahara	35516242	1,65	Lacquered
Sahara Non-Slip	81516242	1,65	Non-Slip

XTREME	Ref.	Width (m)	Finish
Blue Fresh	35516243	1,65	Lacquered
Blue Fresh	35516343	2,05	Lacquered
Blue Fresh Non-Slip	81516243	1,65	Non-Slip

XTREME	Ref.	Width (m)	Finish
Azur	35516244	1,65	Lacquered
Azur Non-Slip	81516244	1,65	Non-Slip

XTREME	Ref.	Width (m)	Finish
Silver	35516245	1,65	Lacquered
Silver Non-Slip	81516245	1,65	Non-Slip

XTREME	Ref.	Width (m)	Finish
Volcano	35516246	1,65	Lacquered
Volcano Non-Slip	81516246	1,65	Non-Slip

XTREME	Ref.	Width (m)	Finish
Onyx	35516247	1,65	Lacquered
Onyx Non-Slip	81516247	1,65	Non-Slip

XTREME Seam sealer

Liquid PVC specifically for finishing welds in **RENOLIT ALKORPLAN XTREME** membranes. For both overlap welds and butt welds. Its colour, texture and composition allow it to match perfectly with **RENOLIT ALKORPLAN XTREME** membranes and its improved formulation makes it highly resistant to the passage of time and to discolouration.

Reference	Description	Contents (g/drum)	Packaging (n/drums)
81022001	Liquid PVC ICE	900	6
81022002	Liquid PVC SAHARA	900	6
81022003	Liquid PVC BLUE FRESH	900	6
81022004	Liquid PVC AZUR	900	6
81022005	Liquid PVC SILVER	900	6
81022006	Liquid PVC VOLCANO	900	6
81022007	Liquid PVC ONYX	900	6



RENOLIT ALKORPLAN XTREME

Pools that stand up to anything!!

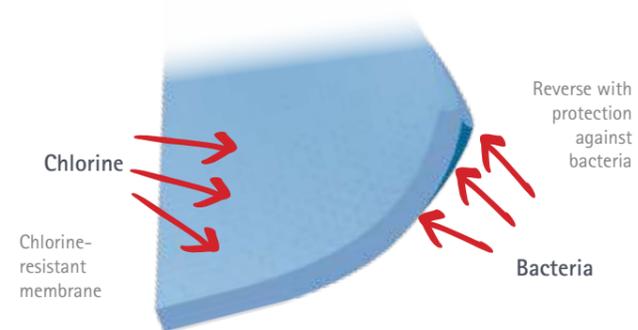


The first chlorine-resistant reinforced membrane, even under extreme conditions

Guarantee 5 Years On color	Guarantee 5 Years Anti stains	Guarantee 15 Years Watertightness
--	---	---

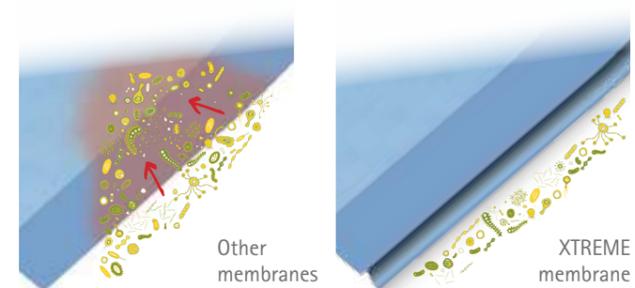
Double protection... longer life

Its revolutionary formula and its protective layers on both sides of the membrane make **RENOLIT ALKORPLAN XTREME** an extraordinary product and superior to any created and produced to date.



Stain resistance warranty

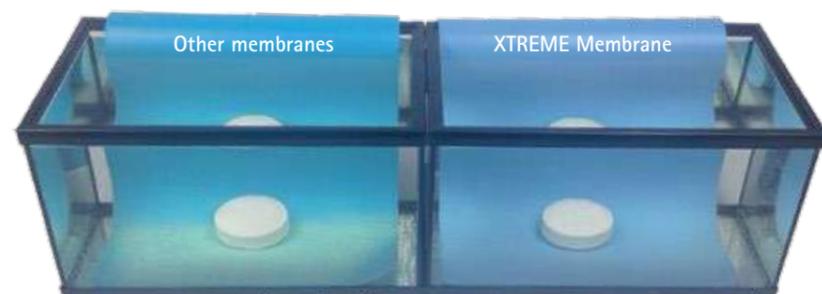
The back part of the membrane has a barrier preventing bacteria, caused by organic remains or damp present in the pool shell, which are able to penetrate the membrane and cause stains. Thanks to this impenetrable barrier on the back of the membrane, there is no need to use of fungicides or bactericides during the manufacturing process to prevent the proliferation of bacteria.



The reverse of **RENOLIT ALKORPLAN XTREME** membrane has a barrier preventing the propagation of bacteria and avoiding the appearance of stains.

Colour duration warranty

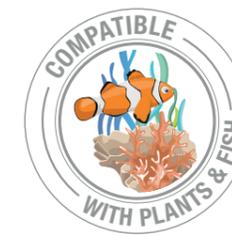
RENOLIT ALKORPLAN XTREME membranes are coated with a special lacquer that makes them much more resistant to all the chemical products that could damage the membrane once installed in the pool. **RENOLIT ALKORPLAN XTREME** has successfully passed all the chlorine resistance tests to which it has been subjected. In comparison with other membranes on the market, the result is indisputable. That is why we offer a 5-year warranty on colour duration.



Compatible with plants and fish

RENOLIT ALKORPLAN XTREME is a more environmentally-friendly product than those currently on the market. Its new formulation means the membrane can be used in the presence of fish and plants.

- ✓ MORE ENVIRONMENTALLY-FRIENDLY PRODUCT
- ✓ NO BACTERICIDES
- ✓ NO FUNGICIDES



Healthier... Less fumes

During installation, when welding, **RENOLIT ALKORPLAN XTREME** is even easier to apply, generating far fewer fumes.



An aesthetically pleasing finish

Thanks to its protection barrier, when a **RENOLIT ALKORPLAN XTREME** membrane is welded, no bright marks typical of overlaps appear, as happens with other membranes on the market.

The membrane will be impeccable after welding!



Owing to its great resistance it is ideal for swimming pools with aggressive water treatments and a large number of bathers, and since it does not have fungicides it is also suitable for aquariums and dolphinariums.

Suitable for public swimming pools



Suitable for water parks



Suitable for indoor swimming pools



Suitable for slides



Suitable for dolphinariums



Suitable for hotels



RENOLIT ALKORPLAN NATURAL POOL

New

RENOLIT ALKORPLAN NATURAL POOL gives an extra dimension to your garden in summer and winter time. In summer the whole family can enjoy a refreshing dive in the cristal clear water. In winter the pool stays a natural water element in the garden.

Waterproofing membrane of flexible polyvinyl chloride (PVC-P) with a polyester reinforcing. Designed for natural swimming pools and small swimming ponds for private use.

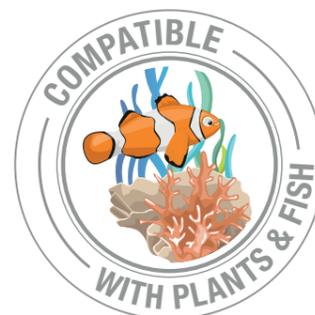
- Non-toxic for fish and aquatic plants.
- Resistant to swelling and rotting.
- High resistance to puncturing.

GUARANTEE
WATERTIGHTNESS
10 YEARS

Compatible with plants and fish

RENOLIT ALKORPLAN NATURAL POOL is a more environmentally-friendly product than those currently on the market. Its new formulation means the membrane can be used in the presence of fish and plants.

- ✓ MORE ENVIRONMENTALLY-FRIENDLY PRODUCT
- ✓ NO BACTERICIDES
- ✓ NO FUNGICIDES



Advantages

- ✓ Can be installed without wrinkles or folds.
- ✓ Makes it easy to line stairs and difficult shapes.
- ✓ RENOLIT ALKORPLAN natural swimming pond liner is a 1.5 mm thick polyester reinforced liner that guarantees long term water fun in your garden.
- ✓ RENOLIT ALKORPLAN NATURAL POOL liners are hot air welded which guarantees a homogeneous and perfectly watertight finish.
- ✓ Accidental damages can be repaired throughout the entire lifecycle of the membrane in a simple and professional way.
- ✓ RENOLIT ALKORPLAN natural swimming pool liner is fish and plant friendly.

NATURAL POOL	Width (m)	Thickness (mm)	Length (m)	Weight/m ² (kg)	Weight of roll (kg)	Packaging (rolls x pallet)
OLIVE GREEN	2,05	1,5	20	±1,9	±80	9
BLACK	2,05	1,5	20	±1,9	±80	9
DARK GREY	2,05	1,5	20	±1,9	±80	9



NATURAL POOL	Ref.	Width (m)	Finish
Olive Green	00328001	2,05	Non lacquered

The ideal colour for your Natural Pool as it is in complete harmony with the natural environment of your garden.

NATURAL POOL	Ref.	Width (m)	Finish
Black	00328003	2,05	Non lacquered

In addition to completely integrating into your garden, it allows the water to warm up more quickly.

NATURAL POOL	Ref.	Width (m)	Finish
Dark Grey	00328004	2,05	Non lacquered

The elegant and sophisticated colour for a bio-pool. Being in harmony with nature is no longer at odds with glamour.

Your natural swimming pool functions on a 100% natural filtering system.

Natural filtering system

A natural swimming pool has no need for an expensive filtering system to keep the water clear. The water is being purified by aquatic plants and by circulation through lava stones.

It can be integrated in your garden without disrupting the natural image in every season of the year.



NATURAL POOL Seam sealer

Transparent liquid PVC specifically designed to protect the welds of a NATURAL POOL membrane. Liquid PVC is not a substitute for a hot air weld, however it will give some protection to imperfectly welded seams and smoothes the step of the overlap, reducing deposits along the weld line.

Reference	Description	Colour	Contents (g/drum)	Packaging (n/drums)
81037002	Seam sealer	Transparent	900	6 Drums

* A drum of product will seal around 100 m².



RENOLIT ALKORPLUS THF Solvent

THF (Tetrahydrofuran) is a solvent normally used to reduce the viscosity of liquid PVC or sealing lacquer. These products leave the factory with the correct viscosity, but since they are manufactured using volatile solvents, over time their viscosity increases. To reduce it, a small quantity of THF is added in the polyethylene bottle that the sealant contains.

It can also be used as a PVC accessory cleaner (tubes, piping, etc.), before the application of the specific PVC glue.

Reference	Description	Colour	Contents (l/bottle)	Packaging
81025001	THF solvent	Transparent	1	6 Bottles



RENOLIT ALKORPLUS MEC Solvent

MEC (Methyl ethyl ketone or Butanone) is a solvent used commonly to reduce the viscosity of sealants manufactured with the same MEK solvent. These products leave the factory with the correct viscosity, but as they are manufactured based on volatile solvents, their viscosity increases over time. To reduce it, add a small amount of MEK to the polyethylene bottle containing the sealant.

This product is suitable for 81022 (XTREME®), 81023 (TOUCH) and 81024 sealants.

Reference	Description	Colour	Contents (l/bottle)	Packaging
81024000	MEC Solvent	Transparent	1	6 Bottles



RENOLIT ALKORPLAN Multi-purpose shears

Multi-purpose 205 mm shears for all the daily awkward incisive tasks in the swimming pool and about. Special formula stainless steel combined with unbreakable, fibreglass-reinforced synthetic handles. The small weight and the ergonomic handles combine to make this tool especially handy. Precision-finished blades of special formula stainless steel deliver outstanding sharpness. Precision ground for an easy and precise cut.

Reference	Description	Packaging
81350010	Multi-purpose shears	5 u./Box



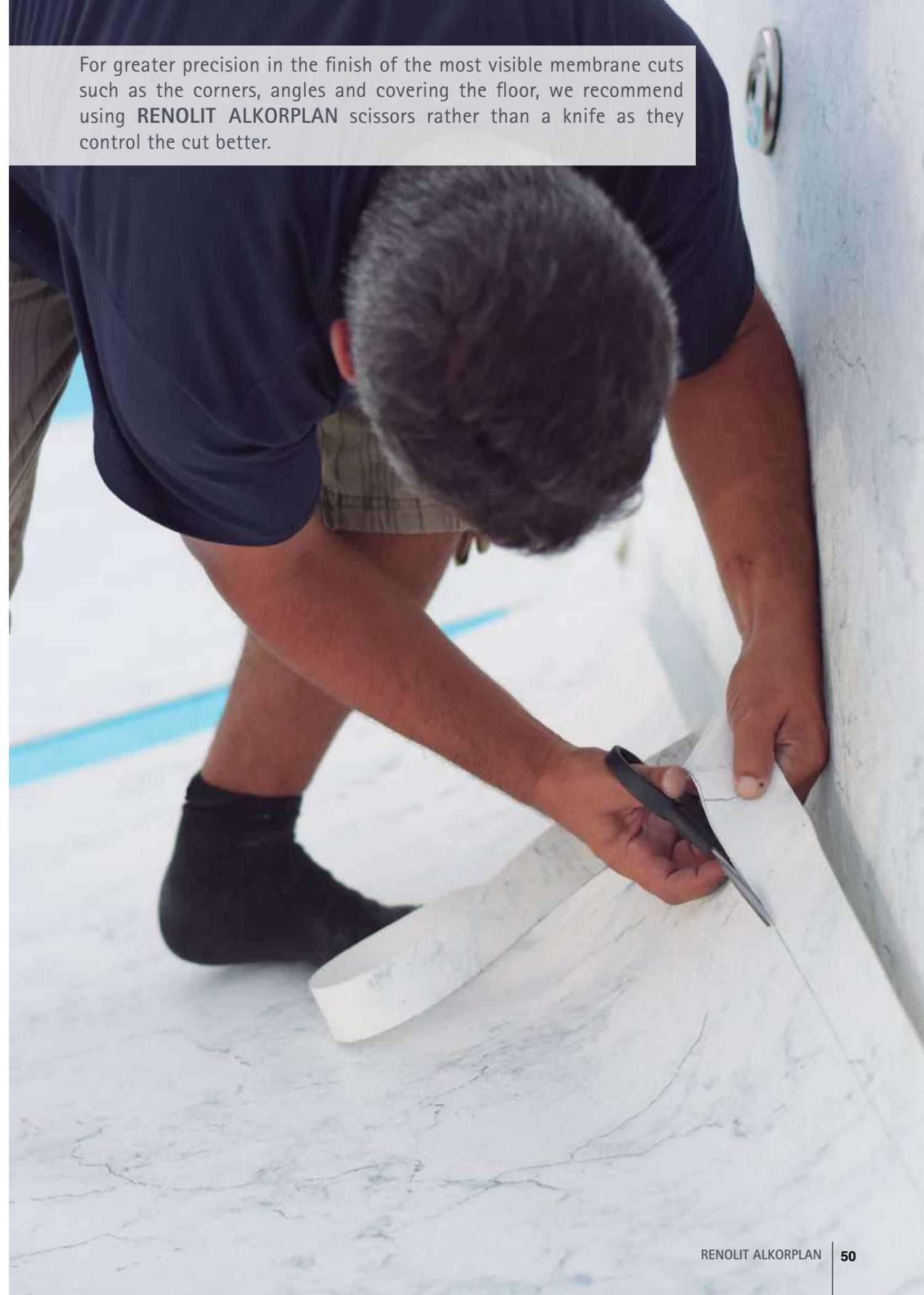
RENOLIT ALKORPLAN Safety Cutter with a hooked blade

Light-weight SAFETY Cutter with aluminium handle for use by right- and lefthanders. With automatic Blade Retract System and blade control slider on top. TÜV approved.

Reference	Description	Packaging
81350020	Safety Cutter	10 u./Box



For greater precision in the finish of the most visible membrane cuts such as the corners, angles and covering the floor, we recommend using RENOLIT ALKORPLAN scissors rather than a knife as they control the cut better.



Lane marker

RENOLIT offers a reinforced membrane for marking out the lanes in public pools. This membrane has a black laminate on its top side to make the lane division clearly visible and a transparent laminate on its back face to avoid remains of melted PVC from being seen after it has been welded to the main pool membrane.



RENOLIT ALKORPLAN Lane Marker

Black film band for marking the lanes in public and competition swimming pools.

Reference	Description	Thickness (mm)	Width (m)	Length (m)	Colour (m)	Weight (Kg)	Packaging
81113F25	Lane Marker	1,5	0,25	25	Black	13	30 rolls x pallet



Use

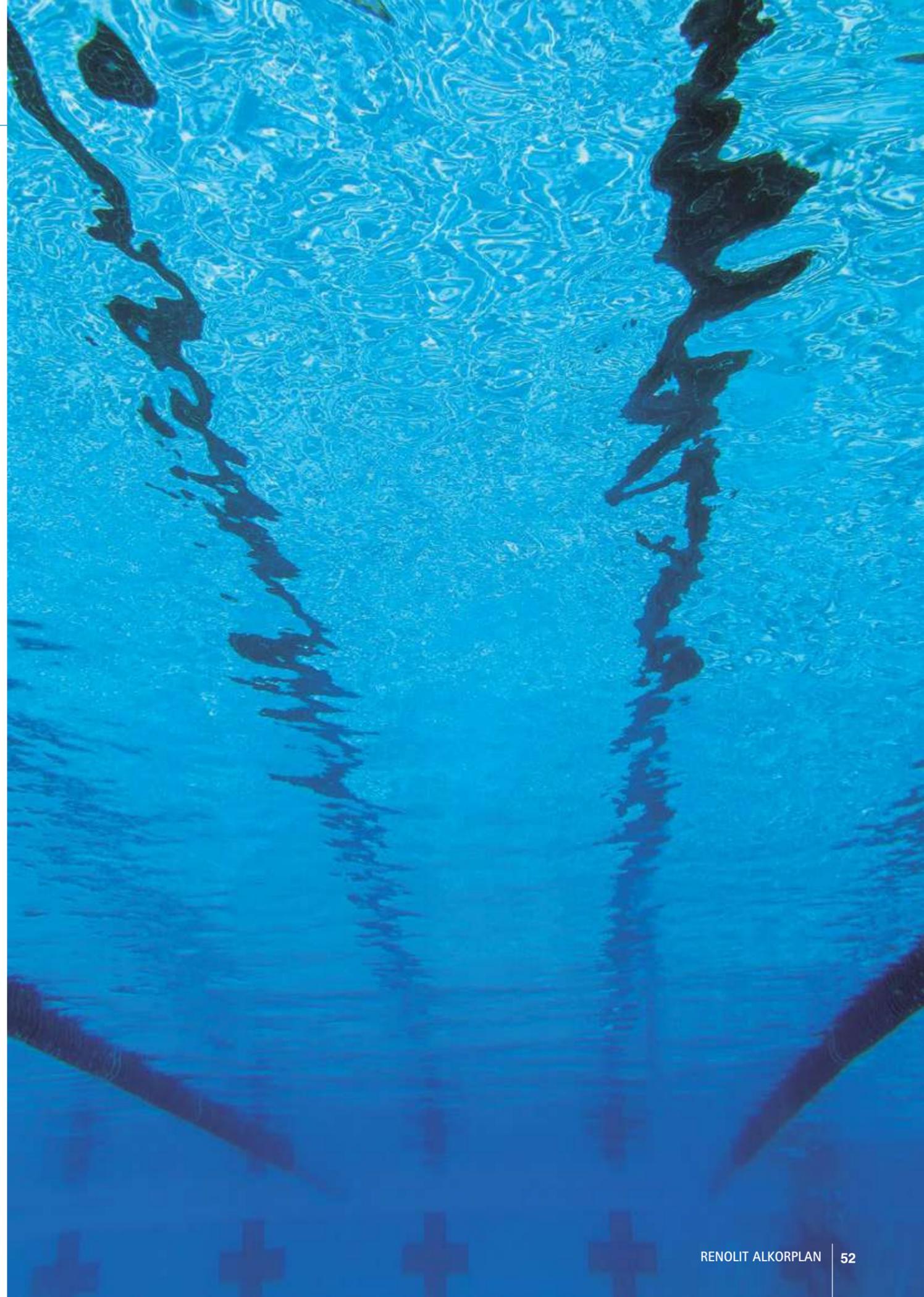


Stretch the strip from end to end of the pool and fix it using spot welds to prevent it from deviating.

Weld it along both longitudinal sides and by only one of the ends, so that a "U" remains.

Expel the hot air accumulated inside the strip after the second weld with a heavy or blunt item, such as a bag of soil or a broom, by dragging it and pressing from one end of the strip to the other, avoiding damaging the membrane.

Once the air has been removed, weld the remaining end and place the pieces of membrane at the ends to form the "T".



Elimination of accumulated grease from the water line

RENOLIT ALKORCLEAN Degreasing cleaner

RENOLIT ALKORCLEAN is a degreasing agent for cleaning the scum line of the pool. Degreasing cleaner RENOLIT ALKORCLEAN can remove dirt that accumulates on the walls of the pool, particularly along the water level.

Due to its composition, this product is especially effective in the removal of oils and fats that are deposited on wall of the pool due to the continued use of sun creams and oils as well as organic waste arising from an environmental origin or deposited by the bathers themselves.



Reference	Description	Colour	Contents (l/bottle*)	Packaging
81026001	Degreasing cleaner	Transparent	1	Carton box with 6 Bottles



Use



Apply the product to a (non-abrasive), dry cloth and rub all along the water line. In some cases it is advisable to slightly reduce the water level to apply the product more comfortably. It is not necessary to completely empty the pool.



Neutralisation of metallic ions in the water

RENOLIT ALKORPLUS Anti-stain

RENOLIT ALKORPLUS Anti-stain is a mineral product in a 70% concentrated suspension available in 1 litre bottles. The product is able to neutralise various metal ions such as copper, lead, tin, cadmium, arsenic, silver, etc.

The presence of dissolved metals in the water can have several causes:

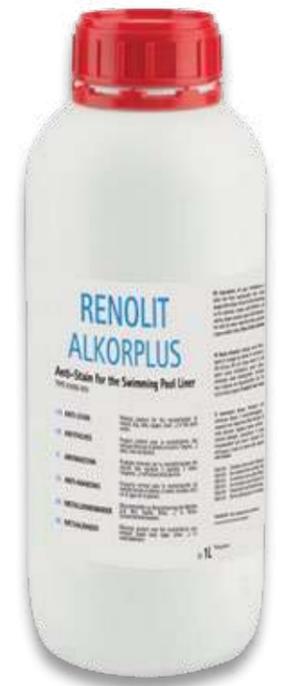
- Corrosion of piping, pumps, alternators, connections, etc.
- The presence of impurities in water treatment products *
- The partial or complete replacement of pool water (e.g. tap water may contain from 0 to 0.2 ppm of copper)
- Use of well water

* Inconsistent use of water treatment products that contain copper (algicides or multifunction tablets).

The presence of metallic impurities in water treatment products can be easily determined:

Take 5 ml of water treatment product in a glass (if it is a solid product, dissolve 1 g in 5 ml of water), add 3 drops of RENOLIT ALKORPLUS Anti-stain, mix for 15 seconds and allow to react for 10 minutes.

If the water treatment product contains any heavy metals, RENOLIT ALKORPLUS Anti-stain will turn grey. Beware, if the tested product is very acidic (eg anti-lime products, certain products for cleaning the water line), it may give off an unpleasant odour. Therefore, we recommend testing outside.



Reference	Description	Colour	Contents (l/bottle*)	Packaging
81059003	Anti-stain	White suspension	1	6 Bottles

One of the most significant causes of pool liner staining is the presence of metals dissolved in the water. These stains are difficult, sometimes even impossible, to remove.

For this reason, it is important to try to reduce the risk of formation of these stains by reducing the presence of dissolved metals in water. Treating the water with RENOLIT ALKORPLUS Anti-stain is a safe and easy way of reducing the presence of metals dissolved in the pool water.



Use



RENOLIT ALKORPLUS Anti-stain consists of small insoluble granules. To avoid the product becoming dispersed by the water, pouring it into the skimmer is recommended. It then forms an active layer in the filter.

Heavy metal ions are absorbed by the product and eliminated along with the product when the filter is cleaned or rinsed. You simply need to introduce a new dose of the product each time you clean the filter.

It is important to run the circulating pump regularly so that the product is dispersed throughout the pool. The indicated dose depends on the likelihood of metal ions being present in the pool water.

The prescribed dose is:

- 40 ml of product (one screw-cap full) per 50 m³ of water each week during the season.
- 80 ml of product per 50 m³ at the start of the season or after each change (even partial) of pool water.



The RENOLIT ALKORPLUS Anti-stain product operating process is not compatible with methods of disinfecting water based on the presence of metal ions in the water, such as copper sulphate and electrophysical systems

Advice for conserving your RENOLIT ALKORPLAN liner



Carry out a daily test to ensure the chlorine level is 1ppm and that the pH is between 7,2-7,6

If you disinfect your swimming pool with chlorine or with a salt electrolysis machine it is essential that the level of the chlorine is 1ppm and the pH level is between 7.2 and 7.6.

If you disinfect with bromide the level should be 1ppm and the pH level between 7 and 8. Excessive use of bromide can cause the liner to become brown in colour.



If the pool has a salt chlorinator you must add stabilizer at the beginning of the season

The chlorine generated by the saline electro chlorinator is stronger than normal chlorine.

To dilute add 30ppm of a isocyanuric acid stabilizer at the beginning of the swimming pool season and check daily that level of chlorine at 1ppm and the pH between 7.2 and 7.6.

If your saline electro chlorinator does not have a RedOx chlorine controller you should use a measuring gauge. Even if your pool is equipped with an automatic Redox control it is necessary to manually check the chlorine on a very regular basis (daily).

This prevents the chlorinator producing more chlorine than necessary, which could bleach the liner and irritate eyes.



It is necessary that the TA level is maintained between 100 and 175ppm

TA (total alkalinity) represents the water's capacity for neutralising acids. A balanced TA level keeps pH from fluctuating and getting out of control. A TA level under 100 ppm turns water corrosive. Damage to the liner would be irreversible.

We recommend checking the PA level weekly or after rainfall.



Protect your swimming pool in summer and winter and do not empty it

Swimming pools are built to be full of water. They should not be left empty for long periods of time.

In the summer keep the water level constant.

In winter protect skimmers and filter systems against frost. Ask a pool specialist for the best winter treatment to keep the water in perfect condition the following season. Above all cover the swimming pool in winter.



If you are going to use well water or water from an unknown source, analyse and treat it before it goes into the pool

If the water does not come from the mains supply or from a guaranteed tanker it is very probable that the water will contain diluted metals such as iron, copper or magnesium.

These minerals can react with the chemical products and produce stains on the liner. If this happens ask a specialist to carry out a treatment with **RENOLIT ALKORPLUS Antistain**.



No chemical products should come into direct contact with the liner

The correct and safest way of introducing any chemical product into the swimming pool is by using the skimmer with the circulation pump working.

If it is powder, granules or liquid and it is required to be put directly into the swimming pool, it must be diluted before in a bucket of water, and poured into different areas of the swimming pool. The circulation pump must always be in use to prevent concentration of a product in one area. Avoid the use of floating dispensers because they can spend too much time in the same position and can bleach the liner.



Do not use chemical products which contain copper

Always read the level of the composition of the chemical products that you use, especially those for algae.

Some anti-algae products contain copper sulphate, these should be avoided.

Use anti-algae with a quaternary ammonia base. These are the best products for your hair and your skin. If by accident you have used a product containing copper, you should apply **RENOLIT ALKORPLUS Antistain**.



Avoid a build up of dirt and calcareous deposits on the waterline

The lacquer that protects the **RENOLIT ALKORPLAN** laminate will repel dirt; however, low maintenance and high bathing loads will accelerate the build up of waterline deposits.

Regular cleaning of the waterline with **RENOLIT ALKORCLEAN** applied with a sponge or cloth will prevent the build up of grease and scale and avoid permanent staining.



Never use abrasive tools or aggressive cleaning products

Do not use aggressive chemical products or cleaning equipment, such as solvents; brushes with wire or stiff bristles; and abrasive pads or cloths that will damage the membrane. The liner is coated with a protective lacquer which is stain and dirt resistant, however it may be damaged if cleaned with abrasive materials or solvents.

RENOLIT ALKORCLEAN is an ideal and efficient cleaner for your liner. It may be ordered through your Swimming Pool Specialist.



Promotional material for your company

To make your job easier, there are **RENOLIT** displays and rollups from each of the **RENOLIT ALKORPLAN**, ranges of products to decorate your showroom or shop and get the most out of your sales.

Ask your dealer...

Display
RENOLIT ALKORPLAN 2000/3000



Display
RENOLIT ALKORPLAN TOUCH



Display
RENOLIT ALKORPLAN XTREME



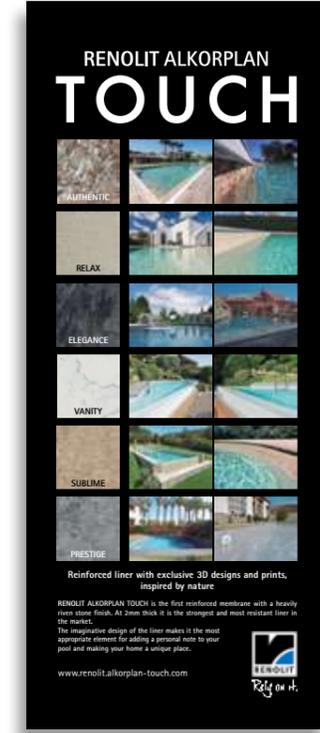
Display
RENOLIT ALKORPLAN CERAMICS



Roll up
RENOLIT ALKORPLAN 2000/3000



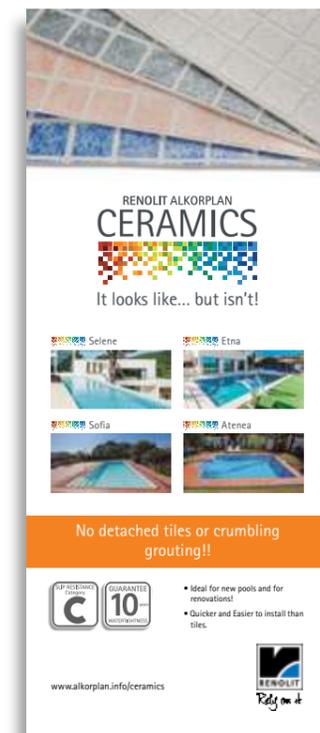
Roll up
RENOLIT ALKORPLAN TOUCH



Roll up
RENOLIT ALKORPLAN XTREME



Roll up
RENOLIT ALKORPLAN CERAMICS



RENOLIT Belgium N.V.
Industriepark De Bruwaan 43
9700 Oudenaarde – Belgium
Phone: +32 55 33 98 14
Fax: +32 55 31 86 58
e-mail: renolit.belgium@renolit.com

RENOLIT Nordic A/S
Naverland 31
2600 Glostrup – Denmark
Phone: +45 43 64 46 33
Fax: +45 43 64 46 38
e-mail: renolit.nordic@renolit.com

RENOLIT France SASU
Roissypôle – Le Dôme
5 rue de la Haye – BP 10943
95733 Roissy CDG Cedex – France
Phone: +33 141 84 30 26
Fax: +33 149 47 07 39
e-mail: renolitfrance-piscine@renolit.com

RENOLIT SE, Germany
Horchheimer Str. 50
67547 Worms
Phone: +49 06241 268039-0
e-mail: schwimmbad@renolit.com

RENOLIT Magyarország Kft.
Hegyalja út 7-13
1016 Budapest – Hungary
Phone: +36 1 457 81 64
Fax: +36 1 457 81 60
e-mail: renolit.hungary@renolit.com

OOO RENOLIT–Rus, Russia
BP "Rumyantsevo" block V, office 414 V
Kievskoye shosse 22 km, pos. Moskovskiy, h.4, bld. 2
108811 Moscow
Phone: +7 495 995 1615
Fax: +7 495 995 1614
e-mail: info@renolit.ru

RENOLIT ISTANBUL
Ağaoğlu My Office İş Merkezi
Barbaros Mah. Çiğdem Sok. No:1
Kat: 5 Daire: 24 34746 Ataşehir İstanbul
Office: +90 216 688 42 90/91/92
Fax: +90 216 688 42 93
e-mail: burak.karaagac@renolit.com

RENOLIT Italia srl
Via Uruguay 85
35127 Padova – Italy
Phone: +39 049 099 47 22
Fax: +39 049 870 05 50
e-mail: renolit.italia@renolit.com

RENOLIT Polska sp. z o.o.
ul. Szeligowska 46 – Szeligi
05-850 Ożarów Mazowiecki – Poland
Phone: +48 22 722 30 87
Fax: +48 22 722 47 20
e-mail: renolit.polska@renolit.com

RENOLIT Portugal, unipessoal, Lda.
Parque Industrial dos Salgados da Póvoa Apartado 101
2626-909 Póvoa de Santa Iria – Portugal
Phone: +351 219 568 306
Fax: +351 219 568 315
e-mail: renolit.portugal@renolit.com

RENOLIT Ibérica, S.A.
(SPAIN & EXPORT)
Ctra. del Montnegre, s/n
08470 Sant Celoni (Barcelona) – Spain
Phone: SPAIN: +34 93 848 42 08
Phone: ExPORT: +34 938 48 42 40
Fax: +34 93 867 55 17
e-mail: piscinas@renolit.com

UK sales RENOLIT Ibérica s.A.
c/o G.G. Tomkinson Ltd.
The Willows, Pattenden Lane
Marden, Kent TN12 9QJ – UK
Phone: +44 7387 158288
e-mail: Jb@jbinlimbo.co.uk

RENOLIT India PVT.LTD.
9, Vatika Business Centre, Vatika Atrium, III Floor,
Block-B, Sector 53, Golf Course Road,
Gurgaon 122002 – India
Phone : + 91 124 4311267
Fax : + 91 124 4311100
e-mail: alok.marwaha@renolit.com

This document supersedes and annuls any other that has been previously published on the same subject.
The colours shown in this catalogue can vary from the original.

RENOLIT reserves the right to change colours and designs.

www.renolit.com/swimmingpool
www.alkorplan.info/ceramics
www.renolit.alkorplan-touch.com
www.renolit.alkorplan-txtreme.com



Rely on it.