

DECOLORATION AND STAINS WARRANTY

RENOLIT ALKORPLAN XTREME®



RENOLIT ALKORPLAN XTREME® PVC-P REINFORCED SWIMMING POOL MEMBRANES

- I. RENOLIT ALKORPLAN XTREME® PVC-P reinforced swimming pool membranes are guaranteed to remain watertight for a period of **15 YEARS** from the date of delivery.
- II. RENOLIT ALKORPLAN XTREME® reinforced swimming pool membranes are guaranteed to protect against discolouration caused by UV radiation or commonly used pool disinfectants for a period of

5 YEARS

from the date of delivery. The five-year warranty also applies to stains caused by microorganisms. Stains caused by the presence of dissolved metals are not covered by the five-year warranty.

- III. The warranty covers the cost of delivering replacement materials to the site in question. Any other damages, subsequent defects and resulting costs are not covered by the warranty.
- IV. We recommend for the installation to be done by a RENOLIT-approved installer and/or a recognized and experienced installer. The installation must likewise be carried out pursuant to current and applicable technical and legal provisions. An installation cost not exceeding 25 €/m² may be claimed.
- V. This warranty does not apply to external or mechanical factors, nor does it apply to exceptional impacts such as physical, chemical, organic or weather factors.
- VI. The XTREME® MEMBRANE will be deemed to have faded if the colour change is greater than level 4 on the grey scale according to UNE EN 20105-A02. Temporary water absorption is not considered permanent discolouration.
- VII. A slightly different performance/appearance of below-water membrane compared to above-water membrane is absolutely normal and not covered under this warranty.
- VIII. For the warranty to be valid the stains or discolouration must cover at least 1% of the surface area of the pool. Stains are considered "permanent" if they do not respond to treatment recommended by RENOLIT technicians.
- IX. RENOLIT ALKORPLAN XTREME® membranes are guaranteed against yellow stains caused by some types of sunscreens. This warranty will be null and void if copper is detected in the water.

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- X. Using product from the same batch is recommended. Colour differences upon delivery and after installation between different batches are not covered under this warranty.
- XI. For a claim to be valid, all project-related invoices must be paid. RENOLIT must be notified of claim details by registered letter before the expiry of the warranty period. Any defects must be examined by RENOLIT technicians before a repair is authorized. Claim-related batch and invoice details must be kept on file. Batch details may be recorded by a roll label or photocopy of the same.
- XII. In the event of a potential claim, RENOLIT must be advised immediately so that technicians can examine the claim. RENOLIT reserves the right to claim expenses in the event that technicians have to travel to investigate a claim which proves invalid.
- XIII. RENOLIT strongly recommends the use of the RENOLIT ALKORPLUS GEOTEXTILE during installation to provide maximum protection from permanent staining.
- XIV. Technical service investigation should not be regarded as an acceptance of responsibility for any failure, nor to a right to further technical service.
- XV. This warranty may be updated at any time. Claims will be treated according to the conditions in place at the time of delivery/invoice/manufacture/installation.
- XVI. This warranty coexists with the usual Spanish warranty rights and is subject to Spanish legislation, excluding the conflicts of laws provisions therein. Sant Celoni is the exclusive place of venue for any claims. Any claims will be decided according to Spanish Warranty conditions and legislation, excluding the conflicts of laws provisions therein. Place of venue is Sant Celoni.

Sant Celoni (Barcelona), 24 January 2017



INSTRUCTIONS FOR INSTALLATION & USE

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1. Safety first and foremost! Consult the safety data sheet when applying liquid PVC, glue or any other chemical. Thermofusion welding gives off irritant gases and adequate ventilation is necessary. Watertight liners that are damp may be slippery; take the necessary precautions. Before completing the lining of the pool, check the legislation regarding the use of non-slip liners and water treatment requirements.
2. Reinforced membrane rolls must remain in their original packaging and must be laid horizontally. Damage caused to the packaging must be repaired immediately, because if the liner is stored in damaged packaging for a long period of time it could result in a deterioration in the quality of the liner, particularly with regard to its surface flatness.
3. Do not install the membrane in places where it could come into contact with tar pitch and oils which will cause staining. When using glue or adhesives, first ensure they are compatible with the liner. The structural support must be clean. Old structures should first be treated with RENOLIT ALKORPLUS *Surface Disinfectant*. If this product is not available in your country, please contact a RENOLIT technician. Avoid rainwater infiltrations behind the membrane. We recommend having a drainage in the support to evacuate infiltration or ground water.
4. If the pool water is not "tap" water (from the mains) or from a reliable source, it must be treated with appropriate chemicals to ensure that it does not contain dissolved metals such as iron, copper, manganese, etc. Deposits of such metals on the liner could cause staining.
5. The level of the pool water must remain stable when the pool is in use. In the winter, when the pool water is not treated with chemicals, the flotation line may rise (due to rain) or drop (protecting the pool against ice). Empty or partially empty pools must be protected with a cover, to prevent contamination and solar radiation damage.
6. Reinforced membranes must be laid tightened (*half pipe or in setting of angles and corners*), so that the water pressure can eliminate all folds and irregularities. Our liners comply with applicable legislation which stipulates a maximum service temperature of 32 °C. The appropriate setting/tightened of corners during installation, and subsequent approval by our technical department, ensures operation under a constant temperature of no more than 35 °C. *When installing membranes that may be exposed to temperatures above 32°C, voids behind the membrane should be increased when fitting corners.*
7. Stabilized chlorine (derived from sodium dichloroisocyanurate) must be added in a quantity of 1-3 mg/l (available chlorine, DPD measurer), pH 6.8-7.6 (EN 16713).
8. Non-stabilized chlorine (free chlorine obtained from saline chlorination, sodium hypochlorite) must be added in a proportion of 0.3-1.5 mg/l, pH 6.8-7.6 (EN 16713). If non-stabilized chlorine is used, adding 20 to 30 ppm of stabilizer is imperative to limit the oxidizing power of the water or the REDOX potential.
9. Bromine derivatives, which are a less volatile alternative to chlorine products, may be used in heated pools. The recommended bromine level is 1-2 mg/l. pH 7-8. Excess bromine in the pool water may cause the liner to turn brown, which is more much visible with light colours.
10. In pools treated with ozone, the residual ozone in the water must be below 0.01 mg/l.
11. Chemicals that contain copper must not be used, as they may stain the liner. We recommend using the RENOLIT ALKORPLUS *Anti-Stain product* to remove all the dissolved copper from the water.

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12. The presence of copper in the water, together with certain sunscreens, may cause yellowish stains along the flotation line that are difficult to remove. These stains will always be more visible with light colours. Adding algicidal or copper products beforehand is not necessary. In some cases, the mains water already contains traces of copper. To reduce the level to at least 0.02 mg/l ($\pm 10\%$), a sequestering agent must be added.
13. Chemicals for treating water must be dissolved before adding them to pool water and they must never be in direct contact with the membrane. When using slow-dissolving chlorine tablets deposited in the skimmer basket, the recirculation pump must be operated regularly. Never leave chlorine products in the skimmers during the winter. The concentration would cause discoloration and fine folds on the membrane.
14. Sunlight affects mostly the horizontal pool parts that are not protected by the pool water, for example the upper stairs and the overflow area. These areas should be made from materials with high UV resistance. Our RENOLIT ALKORPLAN XTREME® membranes have proven to be the best choice.
15. The pool design must ensure the optimum circulation of water. Install the skimmers in the appropriate part of the pool, taking the prevailing wind direction into consideration to prevent build-up of oil and dirt along the waterline, which could cause permanent staining.
16. Grease films must be removed regularly with an alkaline or degreasing agent, such as RENOLIT ALKORCLEAN degreaser, whereas acid products are more suitable for removing lime scale (5% hydrochloric acid). Our RENOLIT ALKORPLAN XTREME® membrane offers optimum protection against stains.
17. Avoid the use of abrasive products and materials when cleaning the liner surface as this will erode the print pattern and protection layers.
18. RENOLIT ALKORPLAN XTREME® membranes are certified to have a null impact on water quality. They can be used in ponds containing fish or other aquatic species.
19. RENOLIT ALKORPLAN XTREME® products are designed as part of a system and are only completely effective in combination with the other products in the range. This is another good reason for using our ALKORPLUS Surface Disinfectant product and the ALKORPLUS geotextile sheet with antibacterial treatment, to eliminate negative interactions with other products.