

## GUARANTEE

### RENOLIT ALKORPLAN KOLOS

By means of this document RENOLIT guarantee that ALKORPLAN KOLOS PVC-P reinforced membranes will remain watertight for a period of **20 years** from the date of delivery, provided that the watertightness failure is due to a manufacturing defect of the reinforced membrane of the pool. Additionally, this product is covered by a **5-year** anti-stain warranty.

These products are developed to be installed only in swimming pools and this guarantee will not be valid if they are installed in another type of installation, such as slides or toboggans.

This warranty is limited to the replacement of the liner material and does not include the cost of removing and installing the membrane or any other loss or damage.

The membrane must be installed by an accredited specialist in accordance with the current state of technology and the applicable legal provisions. The installation of the reinforced liner must have been carried out in accordance with the RENOLIT ALKORPLAN installation procedure. This product has not been developed to be installed using butt welding.

This guarantee does not apply to problems caused by external mechanical influences or extraordinary influences such as physical, chemical, organic or climatic influences. The guarantee also does not cover any colour deviations resulting from the use of different batch numbers on the same drawing. The pool owner must strictly follow the maintenance instructions for the RENOLIT ALKORPLAN membrane (pages 2 and 3 of this document; also published on our website and given to our distributors). The anti-stain warranty will be invalid if copper or other metals such as iron and manganese are detected in the water.

The validity of this warrant is subject to fulfilment of the payment terms between all parties and the notification of all faults by registered letter, received before the expiry of the warranty period. Such faults must be approved by our technical staff before making any repairs. The original adhesive label of the material must be kept as proof along with the invoice, or a photocopy of the adhesive label of one of the RENOLIT ALKORPLAN membranes rolls used to build the pool (one adhesive label per roll).

In the event of raising a claim under the warranty, you should notify RENOLIT of the incident immediately so that our technicians can check the material and the cause of the damage. RENOLIT will assume the cost of defective material, if it is shown that the defect originates from its manufacture. The installation should be stopped if such a defect is detected. If the installation continues, even if there is a clear defect, RENOLIT will not assume the guarantee of the product.

If the RENOLIT technical staff must travel and there are no grounds for claiming under the warranty, the company reserves the right to claim payment of travel expenses.



Sant Celoni (Barcelona), February 07, 2025

## INSTRUCTIONS FOR INSTALLATION & USE

### RENOLIT ALKORPLAN KOLOS

1. Safety first and foremost! Consult the safety data sheet when applying the 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 the requirements regarding water treatment.
2. Reinforced membrane rolls must remain in their original packaging and they must be laid horizontally. Damage caused to the packaging must be repaired immediately, as if the liner is stored in damaged packaging for a long period of time, this could lead to 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 ALKORCHEM SUPPORT PRETREATMENT. Make sure that no ground water can penetrate behind the liner, as this could cause a bacterial infection. We strongly recommend the use of our GEOTEXTIL RENOLIT ALKORPLUS during installation for maximum stain protection.
4. RENOLIT membrane is part of a system consisting of the membrane itself, the sealant or liquid PVC, rivets, adhesives and our RENOLIT GEOTEXTILE with antibacterial treatment. Without the use of GEOTEXTIL, staining problems will not be accepted.
5. For correct fusion and welding adherence, it is recommended to weld at outdoor temperatures above 15°C.
6. Before starting to install the reinforced membrane, make sure that the sheets to be installed in one plane are from the same manufacturing batch. This will guarantee that the colours of the different strips match each other correctly.
7. If the pool water is not "tap" water (water 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.
8. The level of the pool water must remain stable during bathing sessions. In the winter, when the pool water is not treated with chemicals, the flotation line may rise (rain) or fall (protecting the pool against ice). Empty or partially empty pools must be protected with a cover, to prevent contamination and aggression due to solar radiation. Swimming pools are not designed to be left empty or without chemical and filter treatment for prolonged periods of time (the pool water should be prevented from turning green or becoming corrupted due to lack of such treatment).
9. Reinforced membranes must be laid tightened (half pipe or in setting of angles and corners), so that the water pressure can eliminate all folds or irregularities. Our liners TOUCH & VOGUE Can be operated at a maximum temperature of 35°C.
10. Stabilised chlorine (derived from sodium dichloroisocyanurate) must be added in a quantity of 0.7-1.5 mg/l (available chlorine, DPD measurer), pH 7.0-7.6.
11. Non-stabilised chlorine (free chlorine obtained from saline chlorination, sodium hypochlorite) must be added in a proportion of 0.3-1.0 mg/l, pH 7.2-7.6. In this case a contribution from 20 to 30 ppm of stabilizer is imperative to limit the oxidizing power of the water or the REDOX potential.
12. Excess chlorination of the pool may cause the liner colour to fade. Dark colours are more prone to fading than light one. An increase in the water temperature, makes the chemical balance of the pool water more difficult to control and can accelerate colour degradation.
13. The use of an automatic treatment system is strongly recommended. If one of these devices is available, in addition to having a pH control electrode, it is mandatory to also have a REDOX/ORP or free chlorine control device. Automatic equipment must allow traceability of the control parameters. The calibration of the equipment and its frequency must also be traceable.



14. In the case of not having automatic control equipment and manual treatment of the pool, it is highly recommended that the treatment be supervised by an external professional, with periodic records of the water parameters and the dates of calibration of the instruments. A record of values and parameters should be kept by means of paper, spreadsheet or database for this purpose.
15. In order to have stable pH, it is advisable to keep the TAC / Alkalinity between 100 and 175 ppm of  $\text{CaCO}_3$ .
16. Bromine derivatives, which are a less volatile alternative than chlorine ones, 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.
17. In pools treated with ozone, the residual ozone in the water must be below 0.01 mg/l.
18. 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
19. The presence of copper in the water, together with certain sunscreens, may cause yellowish stains along the waterline that are difficult to remove along the flotation line. These stains will always be more visible with light colours. It is not necessary to add alguicidal or copper products beforehand. In some cases, the mains water already contains traces of copper. To reduce the level at least to 0.02 mg/l ( $\pm 10\%$ ), a sequestering agent must be added.
20. Chemicals for treating water must be dissolved before adding them to the 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. During the winter never let chlorine products in the skimmers, the concentration would cause discoloration and fine folds on the membrane.
21. Solar radiation mainly affects the horizontal parts not covered by the pool water, such as the first steps, overflow areas, etc. These areas must be lined with a product that is extremely resistant to UV radiation. In such cases, all product ranges included in this document with protective varnish are the best option.
22. The pool design must allow the optimum circulation of the water – install the skimmers in the appropriate part of the pool, taking the prevailing wind direction into consideration to prevent the build-up of oil and dirt along the waterline, which could cause permanent staining.
23. Oil deposits must be removed regularly with an alkaline or degreasing agent, such as RENOLT ALKORCLEAN degreaser, whereas acid products are more suitable for removing lime scale (5% hydrochloric acid). All our product ranges included in this document offer optimum protection against stains.
24. Avoid the use of abrasive products and materials when cleaning the surface of the liner as this will erode prints and the protective lacquer.
25. The components used to produce ALKORPLAN reinforced membranes conform to all relevant non-toxic certification. However, in most cases, the formulations contain biocidal products to increase their useful life. They must not be used in ponds containing fish or other aquatic species.