

## TECHNICAL DATA SHEET

### RENOLIT ALKORPLUS Anti-stain - Type 81059-003

#### Description:

The RENOLIT ALKORPLUS anti-stain 81059 is a mineral product, concentrated to 30%. The product neutralizes various metal ions such as copper, lead, tin, cadmium, silver, etc... (An ion: the form taken by a metal or metal salt when dissolved in water).

One of the principal causes of aesthetic problems associated with swimming pool liners is the presence of dissolved metal. The problems take the form of staining and discolouring which is very difficult, if not impossible, to remove. It is, therefore, important to remove the traces of dissolved metal before the staining appears. The patent RENOLIT ALKORPLUS anti-stain product offers a simple, safe, and effective system for reducing the presence of dissolved metal in swimming pool water.

The presence of dissolved metal in swimming pool water may originate from:

- Corroded pipes, pumps or heat exchangers.
- Impurities in water treatment products\*
- Partial or complete replacement of pool water with water containing metal salts (tap water for example may contain up to 0.2 ppm of copper).

\* The presence of metal impurities in water treatment products can be easily tested: For 5 ml of the water treatment product in a glass (if the product to be tested has a solid form, dissolve 1gr into 5ml of water), add 3 drops of the RENOLIT ALKORPLUS anti-stain 81059, mix the products for about 15 seconds and wait 10 minutes for reaction. If the water treatment product contains heavy metals, the white RENOLIT ALKORPLUS anti-stain 81059 will turn grey. It is strongly advised to do the test in open air: If the product to be tested is strongly acid (e.g. anti-lime products, certain products for cleaning the water line), an unpleasant smell may be released.

#### Placement:

The product consists of a slightly soluble solution, it must be shaken well before dosing. In order to avoid dispersion of the product into the pool, it is advisable to pour it into the skimmer. In this way, the product forms an active layer in the filter. Dissolved metals are absorbed by the product and when cleaning or back-washing the filter they are removed from the water together with the product. This means that after every filter backwash, a fresh dose of the product must be added. It is important that the circulation pump is operated regularly, to ensure that all the pool water is treated. The dosage is determined by the amount of dissolved metals present in the pool water.



The prescribed dose for **preventive treatments** is:

- 40 ml (cap volume) of the product per 50 m<sup>3</sup> of water; weekly during the swimming pool season.
- 80 ml (2 x cap volume) of the product per 50 m<sup>3</sup> of water at the beginning of the swimming season or after every pool water replacement (even partial).

For **curative treatment** is:

- First backwash the filter and then, add 80 ml (2 x cap volume) of the product per 50 m<sup>3</sup> to the skimmer in continuous filtration.
- Repeat this procedure at least once a week
- To speed up the stain removal process, temporary over chlorination is possible (but do take care not to bleach the membrane and do not to swim in water containing too much chlorine).

**For only one week**, and while dosing with Anti-Stain product:

- Increase Chlorine level to 10 mg/l
- Decrease pH to 6,5

### Presentation:

One-litter bottles

### Shelf Life:

5 years

### Caution:

It is important to shake the product thoroughly before use. The product is neither toxic, nor irritating. Under no circumstances should the product be mixed with an acid as it gives off an irritating and inflammable gas. This technique is not compatible with other disinfecting methods that are based on the presence of dissolved metal in the pool water (such as copper sulphate and electro-physical systems). The treatment of pool water by means of the RENOLIT ALKORPLUS anti-stain is compatible with flocculating products based on aluminium salts. Outside the swimming pool season, an anti-stain treatment with RENOLIT ALKORPLUS anti-stain is not necessary, because the risk of the newly dissolved metals appearing is negligible, provided that the water treatment products do not contain metal impurities. It is strongly advised not to put any chlorine tablets into the skimmer outside the swimming season or whenever the circulation pump is not regularly operating. Large concentrations of chlorine may build up and cause corrosion to the metal parts of the pump. This will also add to the presence of dissolved metals in the swimming pool water, which might cause the formation of stains on the membrane.

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