



SILOXIL 500 W

PROTECTIVE WATER-REPELLENT TREATMENT FOR POROUS MATERIALS

Single component water-repellent protective treatment, consisting of a low molecular weight organoalkoxysiloxane dissolved in water.

Areas of use

SILOXIL 500 W is used to protect a surface from the penetration of water and salts in solution and gases produced by environmental pollution. Preserves concrete from carbonation and in marine areas prevents degradation caused by chlorides and salinity. Used on old walls, it prevents the formation of saline efflorescence. It is applied to all absorbent mineral building materials:

- brick and exposed concrete;
- natural stone, marble, travertine, tuff, sandstone, etc;
- bricks, terracotta;
- cement and lime-based mineral plasters;
- mineral paints based on lime, cement and silicates;
- artificial stones and cellular concrete.

Features

SILOXIL 500 W strongly reduces the disintegrating action of chemical agents present in the atmosphere on porous materials. It penetrates deeply into the treated material and hardens in the presence of humidity without forming surface films. On the walls of the capillaries, it forms a silicone resin impregnation which, once hardened, significantly reduces the water absorption of the material, making it water-repellent.

- SILOXIL 500 W guarantees good resistance to alkalis in materials containing lime and cement;
- good resistance to atmospheric agents and ultraviolet rays: it does not show yellowing;
- while making the material water-repellent, it maintains its permeability to water vapor unaltered;
- it does not produce surface films and leaves the chromatic appearance of the surfaces unchanged;
- prevents damage caused by the freeze/thaw phenomenon;
- prevents the formation of efflorescence, mold and moss;
- long duration of the protective treatment.

How to use

Support preparation

Thoroughly clean the substrate to eliminate efflorescence, mold and dirt.

The cleaning operation, carried out with pressurized water or with a hydro sandblaster, causes the surface pores of the material to open and increases its absorption capacity. It is therefore necessary to proceed immediately with the protective intervention to prevent dirt from accumulating in a short time. Adequately protect the glass, wood, metal and plastic parts.

Product preparation and application

SILOXIL 500 W is ready for use and must be applied uniformly in two or more coats by brush, roller or low pressure spray.

Apply two coats in short times without waiting for the complete evaporation of the water to prevent the water repellent agent from carrying out its function by hindering adhesion of the next layer.

The surfaces must be kept dry with temperature between + 10 ° C and + 30 ° C.

Technical features

The product is presented as a transparent liquid whose density is 0,85 kg/dm³ and its viscosity is about 12,5 cP.

The table below highlights the percentage reduction of water absorption by immersion that is obtained by impregnating stone, brick or concrete with SILOXIL 500.

	Not-treated material	Treated material
Concrete water absorption	2,19 %	0,80 %
Brick water absorption	15,33 %	1,98 %
Trachyte water absorption	1,33 %	0,62 %
Carbonate rocks water absorption	11,34 %	3,12 %

Working and hardening times

Pot life in bucket cannot be evaluated. The hardening of the product occurs by evaporation of the water which leaves the siloxane in the material to be impregnated.

Tack free (dry to the touch) time varies from a few minutes to a couple of hours depending on the material and weather conditions.

Consumption

In consideration of the type of material and its absorption capacity, consumption is indicative and highly variable.

Material	Consumption
Brick	0,3 - 0,6 l/m ²
Concrete	0,1 - 0,4 l/m ²
Carbonate rocks	0,5 - 1,5 l/m ²
Plaster	0,5 - 1,0 l/m ²

Packaging and storage

Available in packs of 5, 10 and 25 l.

Place the product in dry rooms and away from heat sources. It can be kept for a maximum of 12 months at 20 ° C in its original sealed container.

Cleaning of tools and health precautions

Always consult the safety data sheets before handling the product.

To clean the tools, use water or denatured ethyl alcohol.

The product contains substances that can cause irritation: therefore avoid any contact with the skin and in particular with the eyes during use.

Wear gloves, protective suit, and closed goggles or protective visor.

In case of contact with the skin wash with water and neutral soap; in case of contact with eyes or mucous membranes, do not use alcohol, but wash immediately with running water and neutral soap for 10/15 minutes, then consult the doctor.

Do not rinse with solvent.

The information contained in this sheet is dictated by the best practical and laboratory experiences of RESIMIX, which guarantees its products when they are applied according to the instructions. However, it is the Customer's responsibility to verify that the product is suitable for the intended use. The manufacturer declines all responsibility for the results of incorrect applications or in any case beyond its control. RESIMIX reserves the right to make changes to the data. For any further clarification, our esteemed customers are advised to contact the Technical Assistance Office