

MARISEAL[®] 770

Polyurethane natural stone sealer

Product description

MARISEAL[®] 770 is a transparent, semi-rigid, abrasion resistant, high gloss, UV-stable (non-yellowing), one component aliphatic polyurethane sealer, used for protecting and sealing of stone and mineral surfaces. Solvent based.

Cures by reaction with ground and air moisture.

Advantages

- Simple application (roller or brush).
- UV-stable (non-yellowing)
- Deep penetrating.
- Excellent sealing and waterproofing properties, because it transforms the absorbent surface in a uniform, joint-free waterproofing barrier.
- Provides protection against liquid dirt staining.
- Resistant to bacteria and fungus.

Uses

The MARISEAL[®] 770 is used as a highly resistant waterproofing sealer. It can be applied on:

- Natural Stones
- Decorative Bricks
- Limestone
- Colored Concrete
- Wood

It gives the surface a constant wet look effect while providing a very shining gloss. It will prevent water penetration and protect from ultraviolet degradation, airborne dirt, smog, industrial fumes, acid rain and will stabilize the surface.

Consumption

250 - 300 gr/m² in one or two layers.

This coverage is based on practical application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, humidity, application method and finish required can alter consumption.

Technical data

| PROPERTY | RESULTS | TEST METHOD |
|------------------------------|---|--------------------------|
| Composition | Aliphatic Polyurethane Pre-polymer, solvent based | |
| Resistance to Water Pressure | No Leak (1m water column, 24h) | DIN 1928, Test A |
| Adhesion to concrete | 2,2 + 0,2 N/mm ² (Concrete failure) | ASTM D 903 |
| Hardness (Shore A Scale) | >95 | ASTM D 2240 |
| Application Temperature | 5°C to 35°C | Conditions: 20°C, 50% RH |
| Tack Free Time | 1-2 hours | |
| Light Trafficking | 12 hours | |
| Final Curing time | 4 days | |

Application

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.

The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the sealer. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days. Old sealers (especially previously applied siloxane sealers), dirt, fats, oils, organic substances and dust need to be removed by mechanical grinding or by chemical cleaning. Possible surface irregularities need to be smoothed. Any loose surface pieces and dust need to be thoroughly removed.

WARNING: Do not wash surface with water!

Sealing

For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

Apply the MARISEAL® 770 by roller or brush, until the surface to be sealed, is covered.

After 1-2 hours (not later than 4 hours) and while the first coat is still a bit tacky, apply the second layer of the MARISEAL® 770 sealer.

The first coat gives to the surface a wet look effect, while the second layer gives to the surface a very glossy look.

WARNING: Follow time instructions carefully, otherwise the intercoat adhesion between the first and the second layer, will not be enough, and adhesion problems might occur. If the intercoat time, between two layers exceeds 3 hours, the surface has to be sanded, before the application of the second layer.

WARNING: Do not apply the MARISEAL® 770 on surfaces treated in the past with silane, siloxane, silicon or other water-repellents, because of expected poor adhesion. We recommend an adhesion test, if circumstances and surface history are not clear.

WARNING: The MARISEAL® 770 is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our R+D Dept. for more details.

Packaging

MARISEAL® 770 is supplied in 17 kg, 10 kg, 4 kg and 1kg pails. Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5^o-30^oC. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

MARISEAL® 770 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet.

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.