



MICROSEALER -50

Low Viscosity, polyurethane based primer / concrete sealer, for both porous & non-porous substrates, and both dry & wet concrete.

DESCRIPTION

MICROSEALER-50 is a one component, low viscosity, polyurethane based primer suitable for many different substrates.

It is characterised by its very low viscosity and balanced curing speed that result in excellent wetting, impregnation and paint-over time on different substrates, whether of high, low or no porosity (e.g. glass and metals). Additionally, it can be effectively used on both dry and wet concrete, even green concrete, not only as primer but also as a low-cost sealing solution, increasing, thus, the durability of the substrate.

The cured film displays outstanding mechanical properties: Its elongation is >300% and its tensile strength surpasses 30 N/mm².

Apply with brush or roller. Consumption: 100-300 gr/m², subject to substrate porosity.

COMPLIANCE - CERTIFICATION

- The adhesion strength of **MICROSEALER-50** exceeds the requirements of EOTA (European Organization of Technical Approval).
- **CE** certified according to EN 1504-2:2004 (2928-CPR-111 & 55)

RECOMMENDED FOR

To be used as **primer** for:

- concrete structures (humid, damp or wet concrete)
- ceramic tiles,
- non-porous substrates like glass, marble & metals.

Also, for use as **concrete sealer**.

LIMITATIONS



1. Will discolour when used on its own exposed. This is purely visual and does not affect the performance of the membrane.
2. If the concrete is very porous, the material may penetrate to a degree that no film is created on the surface. In this case, there will be need for subsequent coating in order to create the dust free primed surface. In cases of extreme porosity, consider the use of less penetrating version **GEODESMO 50**.

FEATURES & BENEFITS

- One component.
- Of low viscosity.
- Easily applicable, even on wet concrete.
- Adheres strongly, even on glassy, non-porous substrates.
- Excellent wetting, impregnation and paint-over time.
- Elastic.
- Many pigment pastes available.
- A low-cost solution for concrete sealing & protection.

APPLICATION PROCEDURE

Clean the surface using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed.



MICROSEALER -50

Apply with brush or roller. Once cured, the main membrane (e.g. **HYPERDESMO**[®] System) can be applied.

CLEANING

Clean tools and equipment first with paper and then using SOLVENT-01. Rollers will not be re-usable.

PACKAGING

1 Lt, 4 Lt, 20 Lt.

SHELF LIFE

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

SAFETY INFORMATION

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

TECHNICAL SPECIFICATIONS

In liquid form (before application):

| PROPERTY | UNITS | METHOD | SPECIFICATION |
|------------------------|--------------------|---|---------------|
| Viscosity (Brookfield) | cP | ASTM D2196-86 @ 25 °C | 30-60 |
| Specific weight | gr/cm ³ | ASTM D1475 / DIN 53217 / ISO 2811 @ 20 °C | 0.95-1.05 |

In cured form (after application):

| PROPERTY | UNITS | METHOD | SPECIFICATION |
|-----------------------------------|--|--------------------------|---------------|
| Tensile strength at break @ 23 °C | Kg/cm ² (N/mm ²) | ASTM D412 / EN-ISO-527-3 | 300 (30) |
| Elongation @ 23 °C | % | ASTM D412 / EN-ISO-527-3 | > 300 |
| Dry to touch: • On DRY cement | hours | - | 6-12 |
| Application of main membrane | hours | - | 12-24 |
| Adhesion to cement | MPa | ASTM D1640 | > 4 |

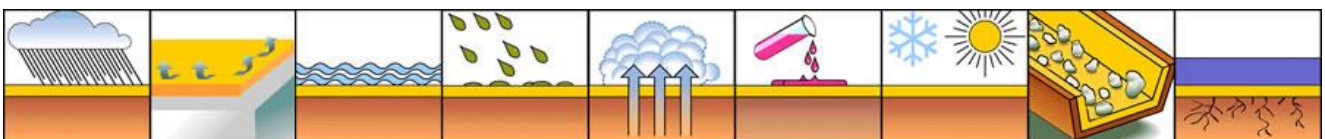


MICROSEALER -50

| |
|---|
| CE |
| 19 |
| ALCHIMICA S.A. 7 Lampsakou, Athens-GREECE |
| 2928-CPR-111 & 55 |
| EN 1504-2:2004 2928 MICROSEALER-50 Concrete Surface Protection Systems-Coating |
| www.alchimica.com |

| Essential characteristics | Performance | Harmonized technical specification |
|--|---|------------------------------------|
| CO ₂ permeability | >50 m | EN 1504-2:2004 |
| Permeability to water vapor | 4,4 m | |
| Capillary absorption & permeability to water | 0,005 kg/m ² ·h ^{0.5} | |
| Adhesion strength by pull-off test | 4,1 N/mm ² | |
| Abrasion resistance | NPD | |
| Impact resistance | NPD | |
| Reaction to fire | Euroclass F | |
| Dangerous substances | In accordance with 5.3 | |

NONE OF OUR PUBLISHED INSTRUCTIONS AND SPECIFICATIONS, IN WRITING OR OTHERWISE, ARE BINDING EITHER IN GENERAL OR WITH RESPECT TO ANY THIRD-PARTY RIGHTS, OR DO THEY RELIEVE INTERESTED PARTIES OF THEIR DUTY TO SUBJECT THE PRODUCT TO AN ADEQUATE EXAMINATION OF ITS SUITABILITY. IN NO EVENT WILL ALCHIMICA™ S.A. BE RESPONSIBLE FOR DAMAGES OF ANY NATURE, WHATSOEVER, RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS. ALCHIMICA S.A. RESERVES THE RIGHT TO CHANGE AT ANY TIME THE PROPERTIES OF ITS PRODUCTS. PLEASE REFER TO THE CURRENT VERSION OF THE TECHNICAL DATA SHEET, AVAILABLE FROM OUR WEB SITE WWW.ALCHIMICA.COM



Certified quality, environmental and occupational health & safety management systems:
ISO 9001/14001 & ISO 45001.

MICROSEALER-50/EE/15-11-2022