

## MICROSEALER-PU

**Low viscosity, solvent-free, polyurethane based primer / concrete sealer, for both porous & non-porous substrates, and both dry & wet concrete.**

### DESCRIPTION

**MICROSEALER-PU** is a one component, 100% solids, polyurethane based primer suitable for all substrates.

It is characterised by its very low viscosity and balanced curing speed which result in excellent wetting, impregnation and paint-over time on all 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 400%, i.e. it matches perfectly that of the **HYPERDESMO® System**, and its tensile strength surpasses 20 N/mm<sup>2</sup>.

Apply with brush or roller. Consumption: 100-500 gr/m<sup>2</sup>, subject to substrate porosity.

### COMPLIANCE

The adhesion strength of MICROSEALER-PU exceeds the requirements of EOTA (European Organization of Technical Approval).

### RECOMMENDED FOR

To be used as **primer** for:

- Humid, damp or wet concrete,
- ceramic tiles,
- non-porous substrates like glass, marble & metals.

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

### LIMITATIONS



Will discolour when used on its own exposed. This is purely visual and does not affect the performance of the membrane.

### 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.
- Solvent-less, suitable for application in closed spaces.
- 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. If there are surface irregularities, we recommend charging MICROSEALER-PU with sand.

#### Thinning:

In order to reduce the chance of bubble formation and to help keep consumption below 500 gr/m<sup>2</sup>, thinning with SOLVENT-01 up to 5% is

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recommended.

### Application:

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

### CONSUMPTION

**100-500 gr/m<sup>2</sup>**, subject to substrate porosity.

### CLEANING

Due to the very high strength of adhesion of MICROSEALER-PU, avoid staining surrounding areas. Clean tools and equipment first with paper and then using SOLVENT-01. Rollers will not be re-usable.

### PACKAGING

1 kg, 5 kg, 25 kg and drums.

### 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

MICROSEALER-PU is free of solvents. Nevertheless, you are advised to observe the standard safety rules: Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. The M.S.D.S. (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	600
Specific weight	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811 @ 20 °C	1.2

#### In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Tensile strength at break @ 23 °C	Kg/cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D412 / EN-ISO-527-3	350 (35)
Elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 400
Dry to touch: • On DRY cement • On WET cement	hours	-	12 6
Application of main membrane	hours	-	24 – 48
Adhesion to cement	mPa	ASTM D1640	> 4

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Adhesion of HYPERDESMO® to MICROSEALER-PU	mPa	ASTM D1640	> 5
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