

**RUST-OLEUM®**  
INDUSTRIAL

## 5401 EPOXY IMPREGNATION PRIMER

# Improves adhesion on porous mineral floors



- Impregnation of porous and brittle floors
- Contains no solvents
- Can be applied on slightly damp surfaces
- Also ideal as primer for concrete repair products

KNOW-HOW TO PROTECT™

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# 5401 EPOXY IMPREGNATION PRIMER

## DESCRIPTION

Solvent-free epoxy impregnation primer for concrete and other porous, mineral surfaces.

## RECOMMENDED USE

Impregnation Primer 5401 is designed for application on concrete and masonry and is primarily intended for roller and brush application. Provides a good key for adhesion on porous, mineral substrates prior to the application of several RUST-OLEUM Systems like; 9100, 5500, Pegakote, 9400 and can also be used as a tack-coat for 5180 Epoxy Repair Mortar.

## TECHNICAL DATA

|                               |                                    |
|-------------------------------|------------------------------------|
| Density (g/cm <sup>3</sup> ): | 1,07                               |
| Gloss Level:                  | Gloss                              |
| Solids Content in weight:     | 100%                               |
| Solids content in volume:     | 100%                               |
| Heat Resistance:              | 100°C (dry heat) - 50°C (wet heat) |
| Compressive Strength:         | 50 MN/m <sup>2</sup>               |
| Tensile Strength:             | 10 MN/m <sup>2</sup>               |
| Flexural Strength:            | 70 MN/m <sup>2</sup>               |
| Mixing Ratio:                 | Base : Activator = 3 : 2 (Volume)  |

## DRY TIMES BY 20° C/RH 50%

|                 |   |
|-----------------|---|
| Touch dry:      | 16 hours (20°C), 36 hours (10°C), 12 hours (30°C) |
| Dry to handle:  | 16 hours (20°C), 36 hours (10°C), 12 hours (30°C) |
| Dry to recoat:  | 16 hours (20°C), 36 hours (10°C), 12 hours (30°C) |
| Fully cured:    | 7 days (20°C), 14 days (10°C), 5 days (30°C)      |
| Pot Life:       | 30 minutes  |
| Induction Time: | 10 minutes  |

## RECOMMENDED WET FILM THICKNESS

100 µm

## RECOMMENDED DRY FILM THICKNESS

100 µm

## THEORETICAL CONSUMPTION

10 m<sup>2</sup>/l

## PRACTICAL CONSUMPTION

Practical coverage depends on many factors such as porosity and roughness of the substrate and material losses during application.

## SURFACE PREPARATION

New concrete should cure and dry for at least 30 days prior to the application of the product. Remove oil, grease and all other surface contaminations by alkaline or high pressure-(steam)cleaning in combination with appropriate detergents. Remove all laitance, loose or unsound concrete by vacuum-blasting or etching with Surfa-Etch 108 Etching Solution. Remove concrete curing compounds completely. Large surfaces should preferably be prepared by abrasive blasting (vacuum blasting) or flame cleaning. Profile maximum 0.5mm. Defects in the concrete should be repaired with 5180 Epoxy Repair Mortar. Small (hair) cracks and air-pockets should be repaired with Epoxy Putty 5412. The surface should be clean and dry during application.

## DIRECTIONS FOR USE

Stir individual components thoroughly before mixing them together. Use a low speed mixer in combination with the boxing method.

## APPLICATION CONDITIONS

Temperature of air and substrate between 10 and 35°C and relative humidity below 85%. The substrate temperature must be at least 3°C above dew point.

## APPLICATION & THINNING: BRUSH

Use natural bristles, longhair brushes. Thinning: Absorbent mineral substrates like concrete: Very porous: up to 20% with RUST-OLEUM 160 Thinner. Normal porosity: 10% up to 30% with RUST-OLEUM 160 Thinner. Power floated (slightly porous): 20% up to 40% with RUST-OLEUM 160 Thinner.

## APPLICATION & THINNING: ROLLER

Use medium nap, 12 mm, polyester rollers. For textured surfaces use long nap 14-18 mm rollers. Thinning: Absorbent mineral substrates like concrete: Very porous: up to 20% with RUST-OLEUM 160 Thinner. Normal porosity: 10% up to 30% with RUST-OLEUM 160 Thinner. Power floated (slightly porous): 20% up to 40% with RUST-OLEUM 160 Thinner.

## CLEANING OF EQUIPMENT / SPILLS

Use RUST-OLEUM Thinner 160.

## REMARKS

Food should be stored separately or covered adequately during application of the Impregnation Primer 5401. The compression strength of the concrete should be minimum 25 N/mm<sup>2</sup>, the tensile strength minimum 1.5 N/mm<sup>2</sup>.

## SAFETY DATA

|                           |  |
|---------------------------|--|
| VOC level:                | 0 g/l.   |
| VOC readymix:             | Max. 400 g/l. Thinner 160; 10% = 105.3g/l, 20% = 206.2g/l 30% = 302.9g/l, 40% = 400g/l |
| VOC category:             | A/j  |
| VOC limit:                | 500 g/l  |
| Remarks regarding safety: | Consult Safety Data Sheet and Safety Information printed on the can.                   |

## SHELF LIFE

Minimum of 5 years from date of production in unopened cans, if stored in dry, well ventilated areas, not in direct sunlight at temperatures between 5° and 35°C.

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**Available colours & pack sizes:** Please refer to the respective product page on [www.rust-oleum.eu](http://www.rust-oleum.eu) for an overview of actual available colours and pack sizes.

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