SPECIALIZED COATING SYSTEMS
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1K PU Primer

SOLVENT BASED **1K**

Description

A one component, solvent based, moisture curing, high solids polyurethane primer for concrete, metal & wood - for overcoating with all types of polyurethane based coatings

Intended uses:

1K PU Primer, is used as a adhesive primer on concrete, metal & wood surface.
On concrete/cementitious surface it can be applied to substrates with moisture content of up to 6% and a ambient relative humidty of 98%. It has a surface consolidation effect for surfaces which are mechanically weak.
Used as a waterproof treatment before layer wooden flooring to prevent moisture damage due to excessive residual humidity in the cementitious screed.
Used as an anti-dust treatment on cementitious surfaces and screeds with a crumbly surface.

Recommended as a primer and adhesion promoter for polyurethane and polyurea base coats / topcoats.

Features & Benefits

- High solids primer which hardens with the moisture present in the surrounding air and in the screed.
- Low viscosity which offer high penetration and excellent sealing characteristics
- Enhances the physical properties of the screeded surface

Certifications:

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Physical Properties:

Pendulum Hardness DIN ISO 1522 (s)	160
Adhesion to concrete (n/mm²)	Approx. 2.3 cohesive failure concrete

Technical Data:

Product Physical Form	Liquid
Binder Type	Polyurethane
Colour	Clear amber
Appearance	Smooth gloss
Volume Solids	65%
Diluent	Supplied ready for use
Recommended WFT	140 – 185µm per coat
Recommended DFT	90 – 120µm per coat
Spreading Rate	5.4 – 7.2 m²/ Litre per coat
Number of Coats	1 - 2
Viscosity @ 25°C	45 cp
Method of Application	Brush, roller, or airless spray.
Processing Temperature	Ambient
Pack Size	5 & 20 Litres
Pot Life	Keep containers sealed with nitrogen blanket when not in use
Tack Free	90 minutes @ 23°C + 50% RH

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Latest Update: 21/07/2025
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Recoat Time Minimum	90 minutes @ 23°C + 50% RH
Recoat Time Maximum	24 hours without re-activation
Over 12 Hours Recoat	Abrade, de-dust and re-primer with 1K PU Primer

Surface Preparation:

- Surface must be free of any contamination including any dust etc.
- Surfaces must be abraded by mechanical means and de-dusted prior to application.

Application:

Application is best made using airless spray, brush or roller taking care to ensure complete coverage of the required areas without over applying which could cause localized stresses in the finished system.

Overcoating time should be strictly adhered to.
All equipment should be cleaning directly after use using MEK solvent.

Limitations:

- Material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight away from sources of heat or ignition.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.

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