UNISEAL® PRIMER

SOLVENT BASED SEALANT PRIMER



Product Features

UNISEAL® PRIMER is a single-component, solvent-based primer that improves the adhesion of **UNISEAL®** sealants to concrete, mortar, masonry and other mineral substrates, as well as aluminium and other metals. It is required on porous substrates and in joints that will be immersed in water, and optional on dry, sound, non-porous joints.

Applicable Products

UNISEAL® PU	Polyurethane Joint Sealant
UNISEAL® PU PRO	Fast Cure Trafficable Polyurethane Joint Sealant
UNISEAL® PS	Chemical Resistance Polysulphide Joint Sealant
UNISEAL® MS Polyether	Advanced MS Polymer Water Industry Sealant

Advantages

- Superior Bonding Strength to Concrete & Metal
- Single-Component, Ready-to-Use – No Mixing or Dilution
- Good Workability – Brush Applied, Dries in 1 – 2 Hours
- Compatible with UNISEAL® PU, PU PRO, PS and MS Polyether Sealants

Fields of Application

- Concrete
- Bricks & Blockworks
- Mortar
- Mineral-like Substrates
- Aluminium and Other Metal Substrates

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UNISEAL® PRIMER

Technical Properties

Property	Values
Appearance	Clear, colourless liquid
Odour	Characteristic odour
Specific Gravity @ 25°C	Approx. 0.93
Viscosity @ 25°C	Approx. 20 sec
Drying Time	1 – 2 hours (per coat)
Adhesion Strength to Concrete	> 0.4 N/mm²
Flash Point	24°C
Boiling Point	126 – 140°C
Explosive / Flammability Limit in Air	1.1 – 7.5% (V)
Auto-ignition Temperature	425°C
Water Solubility	Insoluble
Vapour Density (air = 1)	2.1
Coverage	0.15 – 0.20 kg/m²*
Packing	1 litre / tin

*Coverage depends on substrate porosity; highly absorbent surfaces generally need two coats.
As a guide, 1 litre of primer serves approx. 30 – 50 litres of sealant, depending on application thickness.

Health & Safety

This product is highly flammable and must be kept strictly away from open flames, sparks, static discharge and all ignition sources. During application, operators must wear appropriate personal protective equipment, including neoprene gloves, protective safety goggles, a suitable respirator and safety footwear. In the event of skin contact, immediately flush the affected area with generous amounts of clean water until all irritation completely subsides.

Shelf Life & Storage

Always keep the lid of the container tightly closed for prolonged storage. Store in a dry, cool and well-ventilated place, and keep out of direct sunlight (between 5°C to 30°C). The shelf life is 12 months in unopened condition when stored as recommended.

Cleaning

Clean up uncured material and equipment with general purpose thinner immediately after use.

This technical data sheet is given in good faith and does not guarantee the application work.
All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice.
It is the user's responsibility to obtain the latest version of the information required.

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Installation Procedures

1 Surface Preparation | 2 Application

Installation Procedures

Step 1

SURFACE PREPARATION

Prior to applying **UNISEAL® PRIMER**, ensure the substrate surface is clean, dry, structurally sound, and completely free from dust, oil, grease, curing compounds, laitance, loose particles, or any surface contaminants. Otherwise, clean the surfaces using a wire brush or clean cloth, followed by a thorough solvent wipe using Toluene or Methyl Ethyl Ketone (MEK) to remove remaining residue.

Newly poured concrete must be allowed to cure for a minimum of 14 days prior to primer application. To ensure sharp, clean edges and prevent over-application, affix masking tape along the outer borders of the joint groove before applying the primer.

Step 2

APPLICATION

Do not dilute **UNISEAL® PRIMER**. Apply using a clean, soft brush. Allow the applied film to dry thoroughly, which typically takes between 1 to 2 hours depending on ambient site conditions. For porous or highly absorbent substrates, applying two coats is recommended. Ensure the initial coat is completely dry prior to applying the second coat. The final primer coat must be fully dry before proceeding with sealant installation.

To ensure maximum adhesion, pour only the required quantity of primer into a clean, dry working container for use within 30 minutes. Do not dip a used brush back into the original container unless the entire contents will be applied within 30 minutes. Any unused portion should be discarded after application; never pour unused primer back into the original container.

Important Note / Special Note

- Exercise caution when applying **UNISEAL® PRIMER** to metal surfaces, as mechanical or chemical treatments (such as polishing, protective coatings, or surface finishes) can reduce surface adhesion.
- Applicators are responsible for conducting field adhesion tests on treated metal substrates and confirming proper application requirements prior to full-scale installation.

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