



# Disbon 481 EP-Uniprimer

Anticorrosive Epoxy Primer · Aqueous, 2-component, solid epoxy resin primer for rigid, non-absorbent substrates. For interior and exterior use.

## Product Description

Field of Application	Promotes adhesion on rigid, non-absorbent substrates. Anticorrosive coating on iron, steel and galvanised surfaces. Universally to be coated with nearly all 1-component and 2-component finishing coatings (apply a trial coating in case of doubt). Unsuitable for concrete repairs as anti-corrosive coating on reinforcing steel rods.
Material Properties	<ul style="list-style-type: none"> <li>■ Excellent adhesion on practically all non-absorbent substrates.</li> <li>■ Can be used as an active anticorrosive coat on de-rusted iron, steel and zinc (galvanised) surfaces.</li> </ul>
Material Base / Vehicle	Aqueous, 2-component solid epoxy resin.
Packaging/Package Size	1 kg, 5 kg, 10 kg combined tin packaging
Colours	White, light grey, dark brown
Storage	Cool, dry and frost-free. Tightly closed original containers have a minimum shelf life of 1 year. If temperatures are low, the material should be stored at 20 °C before application.
Technical Data	<ul style="list-style-type: none"> <li>■ Density: 1.5 g/cm<sup>3</sup></li> <li>■ Dry film thickness: approx. 35 µm/100 g/m<sup>2</sup></li> </ul>

## Application

Suitable Substrates	<p>Non-absorbent, rigid/stiff substrates, such as Glasal, Resopal, Werzalit, Colorpan, tiles, engobed clay bricks, existing polyurethane, epoxy resin or polyester coatings, aluminium (not anodised), galvanised surfaces, untreated vacuum concrete and uncoated Eterplan-N boards.</p> <p>Apply a trial coating and check for adhesion on PVC and coil coatings. Do not apply on polyethylene, poly-propylene and anodised aluminium. The substrate must be dry, clean, sound, stable in dimensions, solid, free from loose particles, dust, oils, fats/greases, detergent, rubber abrasion (skid marks) and all separating material that may prevent good adhesion.</p>
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Substrate Preparation	<p>Prepare sound/stable substrates by removing all soiling (dust, dirt, etc.) with a high pressure water-jet. Remove all silicone containing and separating substances. After having finished the wet cleaning procedure, ceramic coatings always are to be roughened mechanically with sandpaper or abrasive fabrics, to achieve a matt surface.</p> <p>Prepare zinc or galvanised component parts with an ammonia-water solution containing a wetting agent or by sweep blasting according to BFS Data Sheet No. 5. Clean freshly galvanised surfaces with a scouring pad.</p> <p>De-rust corroded iron, steel and galvanised surfaces metallic bright according to industry standard (degree of surface preparation SA 2 <math>\Omega</math> to DIN EN ISO 12944, part 4.).</p> <p>Substrates with asbestos content (e.g. Glasal) are to be cleaned in accordance with current regulations (in Germany: TRGS 519).</p> <p>Prepare hard PVC with an ammonia-water solution containing a wetting agent according to BFS Data Sheet No. 22.</p> <p>Prepare aluminium by sanding with a scouring pad followed by phosphorous acidic cleaning according to BFS Data Sheet No. 6.</p>
Preparation of Material	<p>Add the hardener to the base material and stir intensively with a low-speed electrical paddle (agitator; max. 400 rpm) until a homogenous and streak-free shade is achieved. Pour the mixture into a second clean container and continue stirring thoroughly.</p>
Mixing Ratio	<p>Base material : hardener = 3 : 2 parts by weight</p>
Method of Application	<p>Apply with whitewash brush, short pile roller or airless equipment (nozzle size: 0.016 to 0.018 in., min. 50 bar).</p>
Surface Coating System	<p>Apply Disbon 481 evenly in a thin coat. Always use the spraying method, when applied under thinfilm enamels. Prime and coat Eterplan-N panels according to the manufacturer's regulation (Eternit).</p>
Consumption	<p>Approx. 120 to 170 g/m<sup>2</sup> for non-absorbent substrates. Spray-application may lead to an increased consumption. The exact rate of consumption is best established by a trial coating on site.</p>
Workability	<p>At 20 °C and 60% relative humidity, approx. 90 minutes. Higher temperatures shorten and lower temperatures extend the pot life.</p>
<p>Note: The end of pot life is not noticeable. Application after the recommended 90 minutes leads to variations in gloss level and shade, lower strength and diminished adhesion to the substrate. Avoid the application of excessively thick coats (excess consumption). Provide for sufficient ventilation (air supply/deaeration) during drying and hardening. Do not use under thick-film, aqueous (water borne/ based) coatings.</p>	
Application Conditions	<p><b>Temperature of Material, Ambient Air and Substrate:</b> Temperature must remain at a min. of 10 °C, max. 30 °C. Relative humidity must not exceed 80 %. The substrate temperature should always be 3 °C above the dew point temperature.</p>
Waiting Time	<p>The waiting time between work steps (applications) is minimum 3 hours at 20° C for water-based and 16 hours at 20° C for solvent-based coatings. Subsequent coating must be applied within 3 days. The given period shortens at higher temperatures and extends at lower temperatures.</p>
Drying/Drying Time	<p>At 20 °C and 60% relative humidity, recoatable after approx. 3 hours with aqueous/water-based coatings and after approx. 16 hours with solvent-based coatings. At low temperatures recoatable after approx. 12 hours with water-based coatings and after approx. 48 hours with solvent-based coatings. During the hardening process (approx. 8 hours at 20 °C), the applied coat has to be protected against moisture, as it may lead to surface faults and loss of adhesion.</p>
Tool Cleaning	<p>Wash immediately after use or during longer breaks with water or warm soapy water.</p>

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

*Base material:* For professional use only. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Keep out of the reach of children. Do not breathe vapour/aerosol (spray dust). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Do not empty into drains, water courses or onto the ground. Contains Isophorondiamine. May cause an allergic reaction.

Hardener: No R & S-phrases

Contains 3-Glycidyloxypropyl-trimethoxy silane. May cause an allergic reaction. Safety Data Sheets available on request for professional user.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures. In Germany: Only completely emptied containers should be given for recycling. Residues: Harden the base material with the hardener and dispose of as paints waste.

EU limit value for the VOC content

of this product (category A/i): max. 140 g/l (2010). This product contains max. 90 g/l VOC.

Giscode

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Further Details

See Safety Data Sheets.  
Follow the application references while applying our materials.

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