EURODUR EP 0100

2-component EP universal primer, solvent-free, also for surfaces in contact with soil and as mortar resin for production of fillets and re-profiling.

Product description	**EURODUR EP 0100** is a 2-component, solvent-free, low-viscosity, liquid epoxy resin-based primer.
Area of application	- as a pore and capillary sealing primer on mineral substrates, e.g., concrete, cement screed for interior and exterior use - excellent as a binder in the production of scratch fillers in the - 1:0.5 to 1:2 filler range meets the relevant directives with respect to impact of - moisture from behind production of EP mortars and screeds in the filler range - from 1 : 3 to 1 : 12 or more serves as primer for the - EURODUR EPH 0401/0402/0403 Joint-fill system
Product characteristics	- low viscosity - easy to use - high capillary activity - very good adhesion spectrum on substrates - universal application - low in emissions
Colour	colourless
Substrate preparation	The surfaces to be coated (old or new) must be solid, dry with good key and sound, free of loose and friable material and substances that could interfere with adhesion, such as oil, grease, rubber marks, paint residues or similar. As a rule, substrate pre-treatment by light shot blasting or resurfacing by grinding (including the respective required follow-up treatment) is absolutely necessary.

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The substrate tear strength must be at least 1.0 N/mm² following pre-treatment of the substrate (proof, e.g. with Herion device, pull speed 100 N/sec). The residual moisture of the substrate must be below 4%. The substrate to be coated must be protected from rising moisture (water under pressure).

Handling

EURODUR EP 0100 is supplied with the correct ratio of components A and B (do not divide containers). The temperature of both components must be between 15 and 25°C during the mixing process. Attention must be paid to the following when mixing the components: First,pour component B into the component A container. Make sure that component B is completely drained. DO NOT MIX BY HAND.
Both components must be thoroughly mixed with a slow-running stirrer at approx. 300 rpm to ensure homogeneous consistency and intensive mixing. Make sure the contents at the bottom and sides of the mixing container are included. The mixing process must be carried out until a homogeneous, streak-free mixture forms. Do not mix for less than 3 minutes. During the mixing process, the mixer should remain immersed in the material to prevent the formation of bubbles. DO NOT WORK DIRECTLY FROM THE DELIVERY CONTAINER! After thorough mixing, pour the mixture into a second, clean container and mix again for approx. 1 minute. Application of **EURODUR EP 0100** should take place at constant or falling temperatures. This will prevent bubble formation due to expansion of air in the substrate. After mixing, the primer application of **EURODUR EP 0100** can be carried out by spraying, rolling, brushing or flooding the prepared substrate.
The primer is sprinkled with fire-dried quartz sand to improve the adhesive bond. In addition to the ambient temperature, the substrate temperature is of vital importance in the processing of reaction resins. The chemical reactions basically slow down at low temperatures:
this extends the processing,
re-coating and traffic-readiness times.

At the same time, consumption per unit of area may increase due to increased viscosity. At high temperatures, the chemical reactions accelerate, so the times referred to above become shorter. For complete curing of **EURODUR EP 0100** the average temperature of the substrate must not be lower than the lowest processing or object temperature. The

	material must be protected from direct contact with water for approximately 24 hours (at 23°C and 50% relative humidity) after application. During this period, the impact of water on the surface can significantly impair adhesion of the next coating. The temperature of the surface to be coated must be at least 3°C above the prevailing dew point temperature (during processing and for at least 24 hours following application at 15°C). Use as primer for the EURODUR EPH 0401/0402/0403 Joint-fill system: EPH 0401/0402/0403 Joint-fill can be used wet-in-wet with the **EURODUR EP 0100** primer. A waiting period of a least 30 minutes is recommended in order that the primer can penetrate the substrate. Make sure that the bonding surfaces are well moistened. Excess **EURODUR EP 0100 must be avoided** due to puddling in the joint slot.
Cleaning	Fresh material can be removed from tools using EUROLASTIC Cleaner G. Mechanical cleaning will be required if the material has fully cured.
Consumption	Between 0.3–0.5 kg/m² depending upon substrate condition and absorbency. For highly absorbent, porous substrates and improvement of the barrier effect against moisture from behind, we recommend a second primer application of approx. 0.2–0.4 kg/m² until pores are completely filled. Comprehensive sprinkling of the fresh primer with fire-dried quartz sand with grain size 0.3–0.8 mm (approx. 1 kg/m²). Excessive sanding must be avoided. These statements are based on our current knowledge and experience and vary, depending on substrate quality.
Packaging	**EURODUR EP 0100** is delivered in 1 kg, 4 kg, 10 kg and 20 kg containers.
Storage and shelf life	Store in a cool, dry place (+10°C to +25°C). Under these conditions, the shelf life of unopened and undamaged original containers is 12 months.

GISCODE		Germany: Hazardous material information system (GIS) of employer's liability insurance associations in the building industry: GISCODE RE 1
Tests / Approvals / Standards	-	EU regulation 2004/42 (Deco Paint Directive) This product complies with EU Directive 2004/42/EG and contains less than the maximum VOC limit (version 2, 2010). According to EU Directive 2004/42, this upper limit for products in category IIA/j type sb is 500 g/l (limit: version 2, 2010). The VOC content of **EURODUR EP 0100** is < 500 g/l (workable material).
Special instructions / protective measures		**EURODUR EP 0100** may only be used in well ventilated areas. Suitable protective clothing must be worn when working. Waste and containers must be disposed of in a safe manner. Avoid release into the environment. Completely empty containers can be returned to the KBS/Interseroh recycling system. The instructions in the corresponding safety data sheet must be strictly observed.

Technical data*			
Technical properties		**Unit**	**Value**
Material basis			Liquid epoxy resin
Mixture ratio		parts by weight	100: 42
Density at 23°C		g/cm³	1.08
Viscosity at 23 °C		s	Approx. 80
Processing time	at + 12°C at + 20°C at + 30°C	min	60 30 15
Traffic-readiness	at + 12°C at + 23°C at + 30°C	h	at least 24 max. 48 at least 7 max. 36 at least 3 max. 24
Cured	at + 12°C at + 23°C at + 30°C	day	5 3 2
Object and processing temperatures		°C	at least 12 max. 30
Max. permissible relative humidity	at + 12°C at + 23°C	%	75 85

After curing*			
Shore D hardness		after 7 days	87
E-modulus (bending pull)		N/mm²	Approx. 3000
Tensile strength		N/mm²	60

*These are approximate values. The values are not intended for the preparation of specifications. The data was determined at +23°C and 50% relative humidity. These times may be longer or shorter at higher temperatures and/or relative humidities. All technical data, measurements and information in this data sheet are based on laboratory tests. Actual measured data may deviate in practice.

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