FLAMMADUR® E 292

Protective PUR coating and sealing compound

Description

FLAMMADUR® E 292 is a flame-resistant, flexible, cold-curing polyurethane mixture. It consists of two components and is designed for use in temperature ranges from -40 to +90 °C. It is particularly suitable for use as a potting resin with electrically insulating properties in heavy-duty applications. It is applied as a humidity-resistant, gas and water pressure-tight coating, casting or trowelling (filler) compound for electrical components, including high-voltage components.

Application instructions

- Use an appropriate tool (e.g. a screwdriver) to puncture the plastic insert inside the lid and the bottom of the lid. Let the hardener flow completely into the lower part of the container.
- Stir the hardener and resin carefully to produce a homogeneous, even-coloured compound.
- When working with larger volumes or individual components, mix resin and hardener at a ratio of 100 to 10 parts by weight.
- When mixing by hand (approx. 5 minutes) or using a mixing tool (3–5 minutes), take care that any sediments on the bottom of the container are completely dissolved and fully integrated into the compound.
- The finished compound can be processed for approximately 20–30 minutes, depending on size and ambient temperature.
- The components to be sealed must be dry, clean and free of grease.

Delivery and Packaging

FLAMMADUR® E 292		
Packaging	Two-component tin	
Size	1 kg	5 kg
Article number		
	DE/EN 4125671	DE/EN 4172744

FLAMMADUR® E 292

Technical Data

Product properties	resistant against seawater, technical oils, acids and alkaline solutions						
Product	FLAMMADUR® E 292 resin			FLAMMADUR® E 292 hardener			
Mixing ratio (weight)	91			9			
Viscosity	approx. 40 000 mPa·s			approx. 110 mPa·s			
Viscosity of the mixture	approx. 20 000 mPa·s						
Density	1.62 g/cm³			1.22 g/cm³			
Density of the mixture	1.58 g/cm³						
Pot life of the mixture (Bookfield RVT, +23 °C, 300 g)	60 min.						
Curing of the mixture	16–24 hours						
Flash point	> 200 °C			> 200 °C			
Storage	dry storage between +10 °C and +40 °C						
Storage life	12 months			6 months (determining factor)			
Technical data of the sealing compound							
Shore hardness (DIN 53505)	88–93 Shore A; 45–50 Shore D						
Curing of the samples	24 hours / +80 °C						
Colour / odour	brown / odourless						
Processing temperature	> +5 °C / relative humidity < 80 %						
Burning behaviour in accordance with UL 94	VO						
Comparative Tracking Index	(DIN/IEC 112)						
Shear strength for different materials							
Concrete	2.40 N/mm²	**Aerated concrete**	0.34 N/mm²	**Limestone**	3.05 N/mm²	**PVC pipe**	1.78 N/mm²
Steel pipe	14.84 N/mm²						
Resistance against oil and alcoholics							
Curing time of probe at room temperature	7 days						
Probe at stock at room temp. with oil/alcoholics	72 hours						
Solvent naphtha	low moisture expansion on surface (approx. 0.5 mm)						
n-Pentan / condensate / hydraulics oil	no changes						
Sealing length	110 mm for bus bar systems / 10 mm for covers						
Watertightness	2.5 bar						
Gastightness	technically tight up to 1 bar helium gas pressure, depending on film thickness						
Safety instructions	Consult the safety data sheet for additional instructions.						

Storage	+10 and +40 °C	
	12 months	6 months (determining factor)
Safety information	Consult the safety data sheet for additional instructions.	

Moulding material

Shore hardness (DIN 53505)	88–93 Shore A; 45–50 Shore D
Post-curing of the samples	24 hrs / 80 °C
Burning behaviour according to UL 94	VO
Creepage resistance	CTI 600 (DIN/IEC 112)
Chemical resistance	resistant to liquids on the basis of DIN EN ISO 2812-1 and DIN EN ISO 2812-2

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