

Fire Protection Technical Data Sheet



FLAMMADUR® E 292

Product Description Water resistant, fire retardant sealing compound.

FLAMMADUR® E 292 is a flame resistant and flexible sealing compound. It consists of 2 components (resin and hardener), is of brown colour and can be used with temperatures between - 40 °C and + 90 °C.

FLAMMADUR® E 292 is halogen-free and cold hardening. The hardened sealing compound FLAMMADUR® E 292 is water resistant and to a large extent resistant against usual technical oils and weak / diluted acids and caustic solutions.

It is recommended to see also Safety data sheets E 292/A (Resin) and E 292/H (Hardener).

Application FLAMMADUR® E 292 is used as water resistant sealing compound for cable penetrations and cable bulkheads as well as for electrical and mechanical construction units like bus parts.

Technical Data **Physical Properties of Components**

	Resin	Hardener	Mixture
Viscosity (m Pa.s)	40.000	110	20.000
Density (g/cm ³)	1,62	1,22	1,58
Ignition Temp.(°C)	>200	>200	

Mixing Ratio
Weight 91 9 91:9

Pot Life (Brookfield RVT, 23°C, 300g) 60 minutes

Cure time (h): 16 – 24 hours

Physical data of sealing compound:

Hardening of probes: 24 h / 80 °C

Colour / smell: brown / neutral

Working conditions: > 5 °C / rel. humidity < 80 %

Shore-hardness 88 - 93 Shore A
45 - 50 Shore D

Burning due to UL 94 VO

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Technical Data (continuation)

Leagage current: CTI 600 (DIN/IEC 112)

Shear force for different materials:

Concrete	ca. 2,40 N/mm ²
Porous concrete	ca. 0,34 N/mm ²
Lime freestone	ca. 3,05 N/mm ²
Pipe made of Polyvinyl Chloride	ca. 1,78 N/mm ²
Pipe made of steel	ca. 14,84 N/mm ²

Resistance against oil and alcoholics:

Probe hardening time at 20 °C	7 days
Probe at stock (20 °C) with oil and alcoholics:	72 hrs

solvent naphta:	little expansion on the surface (0,5 mm)
n-Pentan:	no changes
condensate:	no changes
Hydraulics oil:	no changes

Sealing lenght: 110 mm for bus bar systems / 10 mm for covers

Watertightness:	2,5 bar
Gastightness:	0,03 bar

Processing

The sealing compound is prepared by carefully stirring the hardener component into the resin. A well mixed sealing compound is an evenly coloured mass. For mixing the components the plastic cover-inlet and the bottom of the container cover are punctured so that the hardener component can flow into the lower part of the container, which is dimensioned is such a way that is can take up the hardener volume, too. For larger volumes and the processing of individual components resin and hardener are to be mixed in a ratio of 100 parts by weight resin to 10 parts by weight hardener.

In case of mixture by hand (approx. 5 minutes) and/or with mixing equipment (3-5 minutes) it is to be made certain that possible sediments at the bottom of the container are fully loosened and mixed with the compound.

The mixed compound can be processed for approx. 40 - 60 minutes, depending on the surrounding temperature . It is to be made sure that neither the components nor the not yet hardened mixture get into contact with humidity of any kind. Humidity starts unwanted chemical reactions, leading to a foaming of the material and changes the characteristic values.

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storage Maximum one year; must be stored in a dry place and frost-free. Keep away from food and drinks.

shelf-life 12 months in closed original containers.

delivery unit	designation	bundle	Ident-No.
	FLAMMADUR® E 292	1 kg	4125671
	FLAMMADUR® E 292	5 kg	4172744

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The above information is true and accurate to the best of our knowledge. It is based upon current test data and supplied for your guidance only. We reserve the right to change any details or specifications without notice.

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