

# FLAMMADUR® E 292

Moisture-resistant, flame retardant and gastight  
PUR-protective coating, sealing or filler



## Fields of application

FLAMMADUR® E 292 is a flame resistant and flexible sealing compound. It consists of two components and can be used with temperatures between -40 and +90 °C. FLAMMADUR® E 292 is suitable as a sealing or corrosion protection coating as well as sealing compound with electrical insulating properties for heavy strain applications. It 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.



## Product properties

- Halogen-free and cold hardening
- Water resistant and to a large extent resistant against usual technical oils and weak/diluted acids and caustic solutions

## Application instructions

- 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 in such a way that it 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 component 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.

## Technical data

Product	FLAMMADUR® E 292 resin	FLAMMADUR® E 292 hardener
Material	Resin	Hardener
Mixing ratio (weight)	91	9
Viscosity	approx. 40,000 mPas	approx. 110 mPas
Viscosity of the mixture	approx. 20,000 mPas	
Density	1.62 g/cm <sup>3</sup>	1.22 g/cm <sup>3</sup>
Density of the mixture	1.58 g/cm <sup>3</sup>	
Application time of the mixture (Bookfield RVT, +23 °C, 300 g)	60 minutes	
Chemical hardening of the mixture	16 - 24 hours	
Ignition temperature	> 200 °C	> 200 °C
Storage	Storage between +10 and +40 °C. Shelf life of at least 12 months in sealed original packaging.	
Ordering information	Can à 1 kg product No. 4125671 Pail à 5 kg product No. 4172744	

## Technical data of the sealing compound

<b>Shore-hardness (DIN 53505)</b>	88 - 93 Shore A; 45 - 50 Shore D
<b>Hardening of the samples</b>	24 hours / 80 °C
<b>Colour / Smell</b>	Brown / neutral
<b>Application temperature</b>	> +5 °C / relative air humidity < 80 %
<b>Burning behaviour according to UL 94</b>	VO
<b>Leagage current</b>	CTI 600 (DIN/IEC 112)
<b>Shear strength for different materials</b>	
<b>Concrete</b>	2.40 N/mm <sup>2</sup>
<b>Aerated concrete</b>	0.34 N/mm <sup>2</sup>
<b>Lime freestone</b>	3.05 N/mm <sup>2</sup>
<b>PVC-pipe</b>	1.78 N/mm <sup>2</sup>
<b>Steelpipe</b>	14.84 N/mm <sup>2</sup>
<b>Resistance against oil and alcoholics</b>	
<b>Probe hardening time at room temperature</b>	7 days
<b>Probe at stock at room temperature with oil/alcoholics</b>	72 hours
<b>Solvent naphta</b>	Low swelling at the surface (approx. 0.5 mm)
<b>n-Pentan</b>	No changings
<b>Condensate</b>	No changings
<b>Hydraulics oil</b>	No changings
<b>Sealing length</b>	110 mm for bus bar systems / 10 mm for covers
<b>Watertightness</b>	2.5 bar
<b>Gastightness</b>	Technically tight up to 1 bar heliumgas-pressure, depending on film thickness

For safety instructions please refer to our MSDS (safety data sheet).