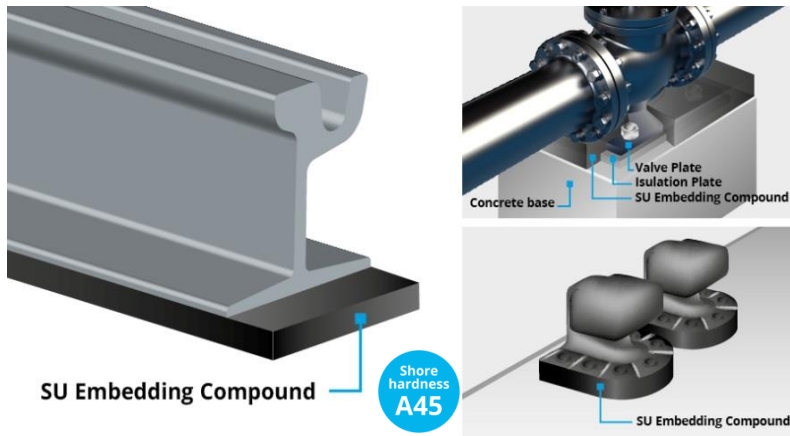


DENSOLASTIC®-SU 45



Product Information



Special advantages:

- Permanently elastic and vibration damping.
- Easy to apply.
- Tested according to VDV notice 6201.
- Chemically and mechanically resistant.
- For numerous fields of application e.g. rails, mooring bollards and fitting foundations (sliding feet).

Elastic hardening, vibration damping pouring compound with low shore hardness for rails, bollards and gate valves.

For a century now, DENSO Group Germany has been representing experience, quality and reliability for corrosion prevention and sealing technology. The success of the internationally leading corporation is based on the development of the "DENSO-Tape", which was already patented in 1927 as the first product worldwide for the passive corrosion prevention of pipelines. Since then, the DENSO Group Germany has been establishing and guaranteeing the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees continuously implement safe and individual solutions in a personal cooperation with the customer.

Product Description

DENSOLASTIC®-SU 45 consists of a pourable, two-component polyurethane-based system that cures into an elastic

material.

DENSOLASTIC®-SU 45 is frost- and road salt-resistant.

Approximate average use: 10 kg/m² per cm material thickness.

Product Usage

DENSOLASTIC®-SU 45 is ideal for use as an elastic and vibration-damping pouring compound for grooved rails and filled section rails as well as for mooring bollards and fitting foundations (sliding feet). The

material is suitable for light railway transportation or when greater deflection is required in the system (e.g. as a pouring compound for machine components).

DENSOLASTIC®-SU 45 is used in pipeline construction as an isolation layer in valve foundations and in port construction as a protective mass for bollards.

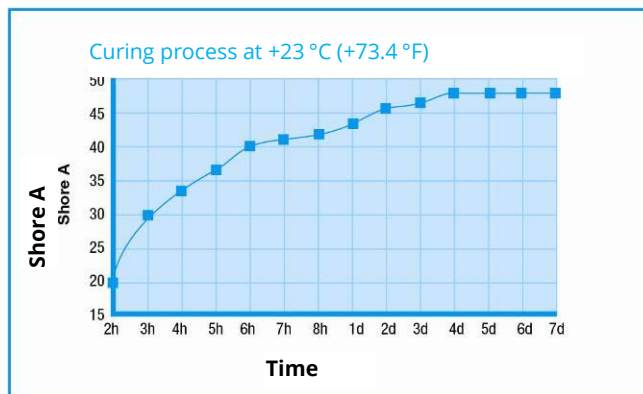
Typical Product Properties

DENSOLASTIC®-SU 45 is characterized by the following properties:

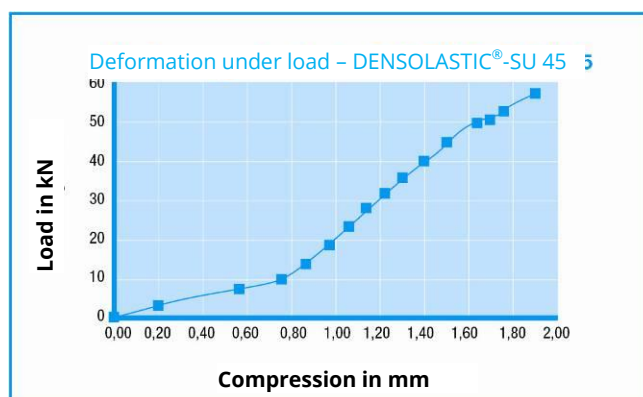
- Vibration-reducing
- Chemically and mechanically resistant
- Permanently elastic: in vibration testing, no effects had been observed after 3 million load cycles
- Long-term resistance to temperatures from -20 °C to +70 °C (-4 °F to +158 °F)
- Resistant to water, saline solution (10%), sodium hydroxide solution (5%) and engine oil (SAE 10 W 40)
- Short-term resistance to diesel fuel
- Electrically insulating
- Medium hardness, in accordance with VDV Notice 6201

Typical Technical Material Parameters

| | | |
|---------------------------|---|------------|
| Pot life | 4-6 min. (approx.) | |
| Density (cured) | 0.72 kg/l (A+B component) | |
| Shore hardness A | 45 ± 5 | DIN 53 505 |
| Tear strength | 1.6 N/mm ² (approx.) ISO R 527 | |
| Elongation after fracture | 170% (approx.) | ISO R 527 |
| Rebound elasticity | 40% (approx.) | DIN 53 512 |
| Tear resistance | 6.5 N/mm (approx.) ISO 34-1 | |
| Bond strength | 1.4 N/mm ² (approx.) | (concrete) |



Determination of the secant modulus between 0 and 50 kN using the load-deflection curve.
 Test specimen dimensions (1000 x 188 x 25) mm and emplaced Ri 60 grooved rail with a length of 1000 mm.
 Load rate 6 kN/min. with centred point of loading.



Product Application

Subsurface preparation

The subsurface may be slightly damp. Any oil or grease film present must be removed if permanent joining of the material to the contact area is desired. Dust and other soiling must be removed, as must water, ice or snow. An application of **DENSOLASTIC®-E Primer** can be used to improve the bond strength across a range of subsurfaces (e.g. steel and concrete).

Preparing the material

Mixing ratio A : B = 100 : 16 (weight), A : B = 100 : 8.8 (volume).

Always ensure that component A has been stirred thoroughly through before working. Following this step, the entire contents of component B are added.

The components must be carefully mixed using a slowly rotating mixer (max. 500 rpm) for about 60–70 seconds. Any material adhering to the sides must be cleaned off and mixed with the rest.

To ensure preparation is rapid and of a high quality, always use a 2-component dosing machine. The air and subsurface temperature should be between +5 °C (+32 °F) and +35 °C (+95 °F).

The material's pot life also depends on the ambient temperature. At room temperature, a pot life of 4–6 minutes can be assumed (incl. time for premixing). The pot life decreases for higher temperatures. The material is tack-free after 2 hours and fully load-bearing after approx. 24 hours.

Ordering Information and Packaging

| Product name | Container size | Order number | Packaging units |
|--------------------|-------------------|--------------|--------------------------------------|
| DENSOLASTIC®-SU 45 | Set 7.55 kg (A+B) | 100 75 036 | Individual container, 29 sets/pallet |
| DENSOLASTIC®-SU 45 | Set 160 kg (A+B) | 100 75 037 | 1 tub A comp., 1 can B comp. |

Usage 0.72 kg/l (approx.)

Storage

Store unopened product in original pack in a dry place at room temperature.

The material must not be exposed to frost or direct sunlight.

Under these conditions, the material can be stored for at least 12 months from the date of manufacture.

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