

PYRO-SAFE® DG-SKN

Fire protection coating

Description

PYRO-SAFE® DG-SKN is a water-based fire protection coating for outdoor application, especially developed for rolling stock. Its VOC content is significantly below the lowest limit of 50 g/L I in accordance with GS-11. Starting at a temperature of 150 °C, it will undergo various reactions during exposure to fire, finally expanding to a cohesive protective layer.



Areas of Application

- Rolling stock
- Outdoor and indoor application
- On request

Delivery and Packaging

| | | |
|-------------------|------------------|------------|
| PYRO-SAFE® DG-SKN | | |
| Packaging | pail | |
| Size | 20 kg | |
| Number of pieces | 24 pcs. / pallet | on request |
| Weight | 480 kg | |
| Article number | | |
| | 01157006 | |

PYRO-SAFE® DG-SKN

Technical Data

| | | | |
|--|---|---|------------------------------------|
| Colour | anthracite grey – no varnish required | | |
| Density (+20 °C) | 1.00–1.25 g/cm ³ | | |
| Thermal conductivity | approx. 1.1 W/(m·K) | | |
| Temperature resistance | -40 °C to +50 °C (for < 30 min +80 °C) | | |
| Temperature resistance (operation) | -5 °C to +50 °C | | |
| Volatile organic compounds | < 50 g/l (GS-11, Green Seal Standard) | | |
| Processing (min. +5 °C / < 85 % relative humidity) | <p>Ensure the surface is free of contamination.</p> <p>The coating is preferably applied using the airless method (nozzle bore: > 0.051 inch) or by compressed air (nozzle bore 3.5–4 mm) at temperatures ≥ 5 °C and a relative humidity of ≤ 85 %.</p> <p>Water or special thickener may be used to adjust PYRO-SAFE® DG-SKN to a preferred viscosity for processing.</p> | | |
| Drying time | Ambient conditions | wet film thickness 500 µm can be coated over with itself | |
| | +25 °C / 35 % relative humidity | after approx. 30 min | |
| | +80 °C / 35 % relative humidity | after approx. 10 min | |
| Example consumption | solids (wt.) | application quantity [g/m ²] | film thickness [µm] |
| | | | wet dry* |
| | 60–70 % | 455 g/m ² | 500 µm 250 µm |
| | The required dry film thickness varies depending on the fire protection requirements and fire protection properties of the structures to be protected. Splash losses are not taken into account! | | |
| Expansion pressure / expansion factor | Early, fast expansion (from approx. 150 °C) with high expansion pressure (up to 1.65 N/mm ²) and a high expansion factor (up to 50 times). | | |
| Storage | 18 months in sealed original container. At room temperature (+5 °C to +30 °C), exceeding the ambient temperature up to 10 °C < 12 hours is unproblematic. Protect from frost. | | |
| Form of delivery | 20 kg PE pail | | |
| Safety information | No classification as per regulation EG 1272/2008. Exempt from specific labelling requirements Consult the safety data sheet for further information. | | |
| Classification | <p>RST PB-Nr. P60-16-8098: The product meets the requirements of R1/R7 for hazard levels HL1–HL3 in accordance with DIN EN 45545-2 (02/2016)</p> <p>RST PB-Nr. P60-17-0313/-3168: The product meets the requirements in accordance with DIN 5510: Part 2 (05/2009)</p> <p>Exova PB-Nr. 376161: The product meets the requirement for category Ia, Ib and II vehicles in acc. with BS 476: Part 7: 1997, BS 6853: 1999 Appendix B.2 and D.8.4</p> <p>ILF PB-Nr. 161067.2: Tested for humidity resistance in acc. with DIN EN ISO 6270-1</p> <p>Müller-BBM PB-Nr. M124497/01: Acoustic insulation, determination of loss factor in acc. with. EN ISO 6721-3</p> | | |