

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
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. 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 %. Water or special thickener may be used to adjust PYRO-SAFE® DG-SKN to a preferred viscosity for processing.</p>								
Drying time	<table> <tr> <td>Ambient conditions</td> <td>wet film thickness 500 µm can be coated over with itself</td> </tr> <tr> <td>+25 °C / 35 % relative humidity</td> <td>after approx. 30 min</td> </tr> <tr> <td>+80 °C / 35 % relative humidity</td> <td>after approx. 10 min</td> </tr> </table>			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
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Example consumption	solids (wt.)	application quantity [g/m ²]	film thickness [µm]						
	60–70 %	455 g/m ²	wet 500 µm dry* 250 µm						
	<p>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!</p>								
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	<p>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.</p>								
Form of delivery	20 kg PE pail								
Safety information	<p>No classification as per regulation EG 1272/2008. Exempt from specific labelling requirements Consult the safety data sheet for further information.</p>								
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) RST PB-Nr. P60-17-0313/-3168: The product meets the requirements in accordance with DIN 5510: Part 2 (05/2009) 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 ILF PB-Nr. 161067.2: Tested for humidity resistance in acc. with DIN EN ISO 6270-1 Müller-BBM PB-Nr. M124497/01: Acoustic insulation, determination of loss factor in acc. with. EN ISO 6721-3</p>								