ProRox GRP 1000

NEW

Product description

ProRox GRP 1000 is a fiberglass-reinforced 1-component polyester (GRP) watertight cladding system solution. In un-processed state the product is soft and malleable. The material contains resins, fiberglass and special fillers and is ready to use. ProRox GRP 1000 can be cut or trimmed into any shape which makes it easy to apply to the insulation. The polyester subsequently cures under the influence of ultraviolet (UV) light. After curing, ProRox GRP 1000 is absolutely watertight and is able to give optimal mechanical protection. Once cured, ProRox GRP 1000 has an extremely high level of hardness and mechanical strength compared to conventional polyester. In addition, ProRox GRP 1000 is impermeable and resistant to a large number of chemicals.

Application

ProRox GRP 1000 is the **ideal solution** for making insulation around pipes, storage tanks, installations, class divisions, etc. sealed, watertight and damage-resistant.

Exposure to sunlight

Applying a coating/paint may be required to improve the cosmetic appearance and/or the durability of ProRox GRP 1000. This is especially relevant if ProRox GRP 1000 is exposed to direct sunlight with a high UV intensity which is common for warm, sub-tropical and tropical climates.

Product properties

	Performance	Standard
Color	Grey	-
Handling / Application temperature	min. 5°C - max. 45°C	-
Service temperature	max. 90°C	-
Emissions (styrene)	< 20 ppm (MAC-value 25 ppm), safety data sheet upon request	-
Flashpoint (non-cured)	125°C	-
Reaction to fire	C_L-s1, d0 round	EN 13501-1
	C-s2, d0 flat	
	Surface burning characteristics; Flame spread = passed. Smoke development=passed	ASTM E84
Density	1.8 g/cm³	ISO 1183
Thickness (after curing)	1.5mm - 2.0 mm	-
Linear expansion coefficient	$25*10^{-6}$ K^{-1}	ISO 11359-2
Hardness	45 Barcol	ASTM D2583
Tensile strength	50 MPa	EN ISO 527-4
Tensile modulus	9 GPa	EN ISO 527-4
Tensile elongation at break	1.0%	EN ISO 527-4
Compressive strength	150 MPa	EN ISO 14126
Water vapour permeability	0.001 g/m².h.mmHg	ASTM E96
Chemical resistance	available upon request	-
Compliance	ProRox GRP 1000 conforms to CINI 3.2.11 "Weather resistant UV-curing fiberglass reinforced polyester (GRP)"	-

(Small divergencies from the declared values are not fully precluded)

Detailed installation instructions are available upon request

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