

ProRox® GRP 1000

NEW

Product description

ProRox® GRP 1000 is a fiberglass-reinforced 1-component polyester (GRP) watertight* cladding system solution. In its unprocessed (uncured) 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 a variety of shapes 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 watertight and provides 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 variety of chemicals.

Application

ProRox® GRP 1000 is the ideal solution for making insulation around pipes, storage tanks, installations, class divisions, etc. 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
Colour	Grey	-
Handling / Application temperature	41°F (5°C) 113°F (45°C)	-
Service temperature	max. 194°F (90°C)	-
Emissions (styrene)	< 20 ppm (MAC-value 25 ppm), safety data sheet upon request	-
Flashpoint (non-cured)	257°F (125°C)	-
Reaction to fire	CL-s1, d0 round C-s2, d0 flat	EN 13501-1
	Surface burning characteristics; Flame spread = passed. Smoke development=passed	ASTM E84
Density	112 lbs/ft ³ (1.8 g/cm ³)	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	7,250 psi (50 MPa)	EN ISO 527-4
Tensile Modus	1,305,000 psi (9 GPa)	EN ISO 527-4
Tensile elongation at break	1.0%	EN ISO 524-4
Compressive strength	21,700 psi (150 MPa)	EN ISO 14126
Water vapour permeability	0.0015 US perms (0.868 ng/s.m ² .Pa)	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)"	-

NOTE: *as per the information on this data sheet. ** Provisions for lot testing may be required,consult manufacturer. (Small divergencies from the declared values are not fully precluded)

Detailed installation instructions are available upon request

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