

GP[®] SEALANT

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GP[®] SEALANT is a novel low modulus expansion joint sealant and adhesive, especially formulated to ensure bubble free cure even at very high temperature and humidity climatic conditions. The product displays excellent thixotropy allowing its use even in very large voids.

It cures by reaction with atmospheric humidity to produce a joint sealant with a 50% joint movement accommodation factor and excellent adhesion on substrates traditionally problematic for PU sealants, e.g. glass, aluminium, steel, polycarbonate, etc. The extrusion rate and tooling of the sealant remain the same throughout a very wide range of temperature and humidity conditions.

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	Class E	EN ISO 11925-2
Elastic recovery (%)	>70%	EN ISO 7389
Resistance to flow (mm)	≤3mm	EN ISO 7390
Tensile properties - secant modulus @ 23°C	≤0.4MPa	EN ISO 8339
Tensile properties - secant modulus @ 30°C	≤0.9MPa	EN ISO 8339
Loss of mass/volume	≤10%	EN ISO 10563

PROPERTY	UNITS	METHOD	SPECIFICATION
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.45
Tack free time, @ 77 °F (25°C) @ 55% RH	hours	-	2.5-3.5
Cure Rate	Mm/day	-	2.0-3.0
Service temperature	°C	-	-40 to 80
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	±27
Modulus at 100% elongation	(N/mm ²)	ASTM D412/ EN-ISO-527-3	0.3
Elongation	%	ASTM D412/ EN-ISO-527-3	>700
QUV Accelerated Weathering Test (4hr UV, at 60°C (UVB Lamps) @ 4hr COND at 50°C)	-	ASTM G53	Passed (>2000 hrs)
Thermal Resistance (100 days, 80°C)	-	EOTA TR011	Passed
Toxicity	-	-	No restrictions after full cure
Resilience	%	DIN 52458	>90
Hydrolysis (8% KOH, 15 days @ 50°C)	-	-	No elastomeric property change
HCl (PH=2, 10 days @ RT)	-	-	No elastomeric property change
Hydrolysis (H ₂ O, 30 days cycle 60-100°C)	-	-	No elastomeric property change
Adhesion to concrete	kg/cm ² (N/mm ²)	ASTM D4541	>20 (>2)

GP[®] SEALANT is CE certified according to EN 15651-1, and specifically designed for sealing GP[®] Membrane reinforcement bar (RE-BAR) penetrations, and complex detailing areas such as fillet, tight corner transitions, terminations to concrete panels, facades, metal frames glass and granite materials. **GP[®] SEALANT** exhibits excellent chemical resistance and provides a gas/air tight seal when used in accordance with the instructions provided.

Application: Slide the sealant into the applicator gun, cut off the very end of the sealant packaging and fit the gun with the nozzle that has been cut to deliver the right bead size (min 5mm). Extrude the sealant into the joint, or around the RE-BAR penetration ensuring that no air is trapped in the joint. Tooling is recommended immediately after the application of sealant. The ratio width to depth should be 2:1 subject to a minimum depth of 10mm.

PACKAGING

600cc sausage, 15 sausages per box - applicator gun provided. 12 months shelf life. Use once opened.

ADDITIONAL INFORMATION

For additional information or assistance, please contact JUTA UK directly.

Contact us to find out more information.
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