HYPERSEAL®EXPERT 60FC

One component fast curing, high hardness, chemical resistant polyurethane sealant

DESCRIPTION

HYPERSEAL®-EXPERT 60FC is a fast curing joint sealant, general purpose adhesive with excellent early grab adhesion even on substrates traditionally problematic for PU sealants, e.g. aluminum, steel, polycarbonate etc.
HYPERSEAL®-EXPERT 60FC has excellent chemical resistance and is recommended in applications of sealing joints where contact with water polluting liquids occurs.

HYPERSEAL® EXPERT 60-FC is available in gunnable grade and in pourable grade as **HYPERSEAL® EXPERT 60-FC SL.**

RECOMMENDED FOR

- direct glazing applications
- automotive glass replacement
- floor joints in petrol stations
- joints in secondary containment
- metal frames,
- aluminum windows and panels,

LIMITATIONS

- Not recommended for direct application on unsound substrates.

  

  In this case, the substrate must be primed with **MICROPRIMER®-PU**, which will re-enforce the concrete and produce a strong durable substrate for sealant application.
- Very porous substrates, dusty surfaces or poorly compacted concrete must have their porous bond area surfaces thoroughly sealed to avoid the possibility of air bubbles being blown into the uncured sealant if the substrate temperature rises.
- **HYPERSEAL®- EXPERT 60FC** is suitable for UV exposure, however if colour retention and no chalking is required, it is recommended that the sealant be painted with good quality acrylic paint.

FEATURES & BENEFITS

- Excellent adhesion on almost any type of surface, with or without the use of special primers.
- Excellent extrusion, tooling and storage stability over wide range of climatic conditions.
- Excellent chemical resistance
- Microorganism and fungus resistant

APPLICATION PROCEDURE

Clean joint thoroughly, and ensure that no oil, grease and wax contaminants, silicone remains are present.

For many applications, primer is not required. In the case of application on very porous substrates, bond area surfaces thoroughly to avoid the possibility of air bubbles being blown into the uncured sealant if the substrate temperature rises. The recommended primer is **MICROPRIMER®-PU**.

Apply backing material such as open cell polyurethane or a closed cell polyethylene backing rod. Although both types of backing rod are recommended, care must be taken when using the closed cell polyethylene rod that the outer skin not be punctured as in rising temperature conditions it may cause bubbling. Backing rod application is important as it ensures that the correct width to depth ratio is achieved to provide

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a firm backing against which the sealant can be tooled off.

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.

Extrude the sealant into the joint ensuring that no air is trapped in the joint. Wide joints will require more than one pass of the application gun to make sure that sealant is in full contact with the sides and bottom of 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.

CONSUMPTION

Linear meters per 600cc sausage:

WIDTH / DEPTH	5 mm	10 mm	15 mm	20 mm	25 mm
5mm	**24**	**12**			
10mm			**4**	**3**	**2.4**
15mm					**1.6**

PACKAGING

600 cc sausage.

SHELF LIFE

12 months minimum in the original packaging when stored in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

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TECHNICAL SPECIFICATIONS

PROPERTY	UNITS	METHOD	SPECIFICATION
Tack free time, @ 77 °F (25 °C) & 55% RH	minutes	-	20-30
Service temperature	°C	-	-40 to 80
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	±60
Modulus at 100% elongation	(N/mm^2)	ASTM D412 / EN-ISO-527-3	0.8
Elongation	%	ASTM D412 / EN-ISO-527-3	>600
QUV Accelerated Weathering Test(4hr UV, at 60°C (UVB-Lamps) & 4hr COND at 50°C)	-	ASTM G53	Passed (after 2000hr).
Thermal Resistance (100 days, 80°C)	-	EOTA TR011	Passed
Toxicity	-	-	No restrictions after full cure
Resilience	%	DIN 52458	>80
Hydrolysis (8% KOH, 15 days @ 50°C)	-	-	No elastomeric property change
Hydrolysis (H_2O, 30 days-cycle 60-100°C)	-	-	No elastomeric property change
HCl (PH=2, 10 days @RT)	-	-	No elastomeric property change
Adhesion to concrete	kg/cm^2 (N/mm^2)	ASTM D4541	> 20 (> 2)