



# AWAZEL PU FLEX

One component, polyurethane-based, low modulus joint sealant

## Description

**AWAZEL PU FLEX** is a novel low modulus expansion joint sealant, especially formulated to temperature and humidity climatic conditions.

## Special Features

- No bubbling/swelling upon curing in difficult climatic conditions.
- Excellent Thixotropy
- 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, suitable for sealing joints in swimming pools and chemically treated water.
- Low modulus, joint movement accommodation 50%.
- Microorganism and fungus resistant.
- Excellent heat resistance, suitable for application where exposure to temperatures  $>60^{\circ}\text{C}$  take place.
- Resistance to cold: The sealant remains elastic even down to  $-40^{\circ}\text{C}$ .

## Uses

**AWAZEL PU FLEX** is recommended for sealing joints in insitu concrete, expansion concrete plates, precast panels, brick and block work, water tanks and swimming pools, metal frames, aluminum windows and panels, irrigation channels, glass, granite & marble.

## Method for Application

Clean joint thoroughly, and ensure that no oil, grease and wax contaminations, 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.

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

## Coverage

Linear meters per 600cc sausage:

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

## Storage & Shelf Life

12 months minimum in the original packaging when stored in dry places and at temperatures of  $5-25^{\circ}\text{C}$ . Once opened, use as soon as possible.

## Packaging

600 cc sausage & 300 cc cartridge.

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## TECHNICAL DATA

Properties	Results	Test Method
Specific weight @ 20 °C , gr/cm <sup>3</sup>	1.45	ASTM D1475 / DIN 53217 / ISO 2811
Tack free time, @ 77 °F (25 °C) & 55% RH, hours	2	-
Cure Rate , mm/day	2-3	-
Service temperature, °C	-40 to 80	-
Hardness, Shore A	± 27	ASTM D2240 / DIN 53505 / ISO R868
Modulus at 100% elongation, (N/mm <sup>2</sup> )	0.25	ASTM D412 / EN-ISO-527-3
Elongation , %	≥ 550	ASTM D412 / EN-ISO-527-3
QUV Accelerated Weathering Test(4hr UV, at 60°C (UVB-Lamps) & 4hr COND at 50°C)	Passed (after 2000hr)	ASTM G53
Thermal Resistance (100 days, 80°C)	Passed	EOTA TR011
Toxicity	No restrictions after full cure	-
Resilience, %	>90	DIN 52458
Hydrolysis (8% KOH, 15 days @ 50°C)	No elastomeric property change	-
Hydrolysis (H <sub>2</sub> O, 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 <sup>2</sup> (N/mm <sup>2</sup> )	> 20 (> 2)	ASTM D4541

Note : The above shown technical data are typical results obtained, to the best of our knowledge, from our quality control records, extra details can be provided upon request, (AWAZEL reserves the right to alter the product specification without prior notice)