FIRE RATED PU SEALANT

is a one-component, medium-modulus polyurethane sealant that cures on exposure to atmospheric humidity and capable of enduring direct flame to certain degrees.

FEATURES & BENEFITS

- **More than 4 hours of fire resistance in certain conditions without using backfilling materials,**
- **25 % movement capability,**
- **No surface tackiness after full cure,**
- **Do not pick up dirt,**
- **No shrinkage,**
- **Cures bubble-free,**
- Enhanced storage stability,
- No sagging – Thixotropic,
- Can be applied with hand gun and tooled easily,
- Paintable.

APPLICATION AREAS

- **Fire rated sealing and bonding application between many different construction materials,**
- **Fire seal of movement and connection joints in floors,**
- **Joints between prefabricated construction materials**
- **Fire stop sealing and bonding of ventilation ducts, gutters and spouts for**
- **For expansion joints between pre-cast concrete panels**

INSTRUCTIONS

- Before application, be sure that joint surfaces are clean, dry and free of all contamination,
- Apply sealant evenly, If necessary, use masking tape and remove the tape while the sealant is still soft,
- Joint width/depth ratio should be 2:1 (Table 1),
- If necessary, use back up material to adjust joint depth,
- Sealants should adhere to only two surfaces of the joint: Use backer rods and bond breakers to facilitate.

Consumption (approx.)

Joint width	15 mm	20 mm	25 mm	30 mm	35 mm
Joint Depth	8 mm	10 mm	12 mm	15 mm	15 mm
Joint length / 600 ml	5 meters	3 meters	2 meters	1,3 meters	1,1 meters

Surface Preparation

Following cleaning procedure and materials are recommended:

Glass	Degrease with alcohol or MEK
Aluminium, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly abrade then degrease as above
Wood	Lightly abrade surface then remove dust
Plastics	Degrease using an agent recommended by plastics manufacturer
Concrete and other alkaline Surfaces	Brush and remove dust

STANDARDS

Meets or exceeds the requirements of the following specifications:

- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.
- The French VOC requirements for class A+
- More than 4 hours of fire resistance according to EN 1366-4 in certain conditions without using backfilling materials.
- In compliance with AS 1530.4:2014 providing more than 4 hours of fire resistance in certain conditions.
- M2 Fire Rating according to NF P 92-501 radiation test.

RESTRICTIONS;

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Do not use in applications where continuous water immersion is possible.
- Do not apply on frozen or wet surfaces or through standing water.
- Prolonged exposure to direct sunlight can cause discoloring,
- Avoid application below 5 °C and above 40 °C.

STORAGE AND SHELF LIFE;

- 12 months if stored in its original package, away from direct sunlight and moisture, between +10 °C and +25 °C

SAFETY & DISPOSAL

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

PROPERTIES

BEFORE CURING		
Basis	: Polyurethane	
Consistency	: Thixotropic	
Curing Mechanism	: Moisture Curing	
Density	: 1.20-1,25g/ml	
Tack free time	: 30-60 min. (23°C and 50% R.H)	
Curing Rate	: Min. 2,5 mm/day (23°C and 50% R.H)	
Sagging	: 0 mm	(EN ISO 7390)
Temperature Resistance	: -40°C to +90°C	
Application Temperature	: +5°C to +40°C	

AFTER CURING			
Hardness Shore A	: 35-40	After 28 days	(ASTM C661)
Paintibility	: Yes *		
Elastic Recovery	:≥ 70%		(ISO 7389)
Glass-Glass			
Elongation at break	: ≥ 200%		(ISO8339)
E100 Modulus (23 °C)	: 0.35-0.40 N/mm^2		(ISO8339)
E100 Modulus (-20 °C)	:≤ 0,60 N/mm^2		(ISO8339)
DUMBLE TEST			
Elongation at break	: ≥%600		(ASTM D412)
Tensile Strength	: 1.5-2.0 N/mm^2		(ASTM D412)

PRODUCT

Product Type	Volume	Package
White/ Black/ Grey	**310 ml**	12
White/Black/Grey (Sausage)	**600 ml**	12

DISCLAIMER

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.