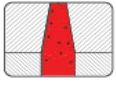




SPEC *seal* PU40

HIGH MODULUS ONE COMPONENT PU SEALANT/ADHESIVE



High Modulus



UV Resistant



Adhesion

DESCRIPTION

SpECseal PU40 is a high quality PU sealant/adhesive. It is a single component, elastomeric sealant with excellent adhesion property on various substrates.

TYPICAL USES

- Ideal for sealing and bonding metal panels and trims.
- Suitable for sealing expansion joints in concrete panels and floor joints.
- Effective for applications exposed to vibration and mechanical wear.
- Versatile for a wide range of sealing and bonding tasks in construction and engineering sectors.
- Reliable for bonding in container manufacturing.
- Suitable for high-traffic floor joints, including those in garage forecourts, warehouses, factory floors, sports venues, and shopping centers.

ADVANTAGES

- Easy to apply as a single-component system
- Strong adhesion to various construction materials.
- Highly resistant to a range of chemicals and microorganisms.
- Outstanding durability against weathering and aging; paintable once cured.
- Maintains flexibility, even in low temperatures.
- No bubble formation during application.
- Smooth extrusion and easy to apply.

TECHNICAL DATA

PROPERTIES	VALUES
Colours	Grey, white, beige and ivory. Other colours subject to minimum quantity.
Skin Formation @ 23°C and 50% RH	15-40min
Cure Depth (24hrs) at 23°C and 50% RH	Approx. 3mm
Specific Gravity	1.50 ± 0.03
Shore A Hardness ASTM C661	40±5
Elastic Recovery (ISO 7389)	>80%
Elongation at Break ASTM D412	230 ± 25%



PROPERTIES	VALUES
Temperature Resistance	-30°C to +85°C
Movement Capability	25%
VOC Content US EPA Method 24	<8g/L
Slump ASTM D2202	<1 mm
Tensile strength ASTM D412	1.40±0.20 N/mm ²
Application Temperature	5°C - 40°C

APPLICATION INSTRUCTIONS

PREPARATION

It is essential that the joint arises are clean and free from any deleterious matter which could prevent adequate bond to the substrate. The substrates must be clean, dry, free of dust and grease and other contaminations.

APPLICATION

1. Cut the tip of the sausage carefully and slip it into the caulking gun.
2. Cut the nozzle into an appropriate diameter at an angle of approximately 45°C to 60°C.
3. Place the nozzle into the caulking gun and screw tight.
4. Extrude the sealant with a single bead. Tool the sealant bead with a clean and dry tool before the sealant skins for a smooth finishing.

CLEAN UP

Wet sealants can be cleaned up with acetone or mineral spirits. Cured sealants can only be removed mechanically.

JOINT DESIGN

Joint dimension should be designed by taking into consideration the movement capability of the sealant and the anticipated joint movement.

Generally the joint width-to-depth ratio is 2:1 for joint width ≥12 mm, or 1:1 for joint width <10 mm.





COVERAGE

Width	Depth	Coverage (600 ml) *
6 mm	6 mm	15.15 meter
10 mm	10 mm	5.45 meter
20 mm	10 mm	2.73 meter
25 mm	12 mm	1.82 meter

*The coverage figures shown above are approximate linear meter run based on 10% wastage assumption. Actual coverage may vary.

CALCULATION FORMULA: $X / [(Y \times Z) \times 1.1] = \text{Coverage}$

X = volume of sausage in ml,

Y = joint width in cm, Z = joint depth in cm,

1.1 = 10% wastage assumption,

Coverage = linear meter run in cm per sausage

LIMITATIONS

Not recommended for the following applications:

- Polyethylene, polypropylene, polytetrafluoroethylene (Teflon), neoprene, and bituminous surfaces.
- Overcoated with oil based paint - not compatible

PACKAGING

SpECseal PU40 is supplied in 600ml sausage.

STORAGE AND SHELF LIFE

SpECseal PU40 has a shelf life of 12 months when stored in original packaging at a maximum temperature of 25°C. If stored at high ambient temperatures or at high humidity the shelf life will be reduced by as much as 50 - 60%.

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