

PRODUCT DATA SHEET

Polythane 25

Single-component hybrid elastomer for elastic bonding

Product Description:

Polythane 25 is a single-component, thixotropic moisture curing sealant, based on hybrid technology with moisture and oxidation resistance exhibiting good adhesion to cementitious and steel substrates. **Polythane 25** is isocyanate, solvent and VOC free.

Typical Applications:

Polythane 25 can be used in a wide variety of general joint sealing and crack filling applications on cementitious surfaces. It provides medium chemical, wear and corrosion resistance, while at the same time curing to a 25 Shore A hardness (+/- 5 Shore A). A degree of colour change with time is to be expected. **Polythane 25** can be over coated.

Typical Properties:

100% Modulus (MPa):	0.25 – 0.40
Tensile Strength (MPa):	0.80 – 1.50
Shore Hardness (Shore A):	25
Elongation at Break (%):	> 600
TVOC:	Compliant
Density (Cured):	1.4
Skin Cure:	1 – 2 Hours cure time (dependent on thickness, % RH and temperature)
Cure Rate:	+/- 2mm per day (dependent on % RH and temperature)
Application Temperature (°C):	5 – 35
Service Temperature (Dry, °C):	60
Movement Capability:	50% of initial joint width
Chemical Resistance:	Dilute acids, dilute alkali and general chemicals
Colour:	Grey

Application:

Preparation of surfaces:

Surfaces must be clean, dry and free of dust, grease or parting compound. Concrete surfaces must be dry and stable (at least 4 weeks). Users must check that the mastic is compatible with the surface in terms of adhesives, staining and chemical compatibility (test a section first). On tiles bonded with a silicone-based adhesive, a section should be tested first.

Place sausage in the barrel gun, cut end off sausage and fit the nozzle; trim the tip to suit the joint spacing to be filled. Insert backing rod to the correct depth. Gun the product into clean joints that are free of loose material and laitance, then smooth with a dry spatula. The joint width should be designed to accommodate the expected movement, a width to depth ratio of 2:1 should be respected and a minimum width of 6mm and a maximum of 20mm should be adhered to. Backing cord/Bond Breaker should be used depending on application, to prevent three-sided adhesion.

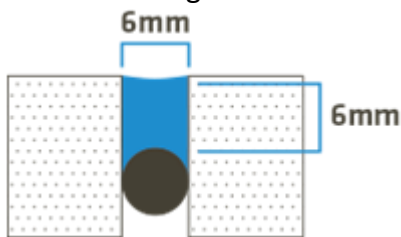
Note:

- Apply the mastic by cord or by studs.
- Heavy materials exceeding 8kg/m² must be supported for at least 15 hours.
- Clean equipment with white spirits before drying. Polymerised mastic can be scraped off.
- This product may be painted after polymerisation is complete. Use acrylic or vinyl dispersion paints after testing a section.

Joint Design:

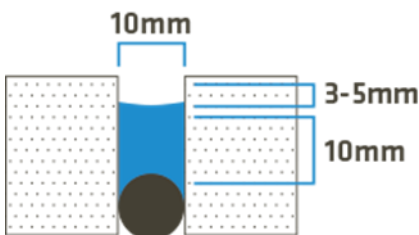
Standard Joint:

- Backing cord minimum 2mm bigger than joint width.



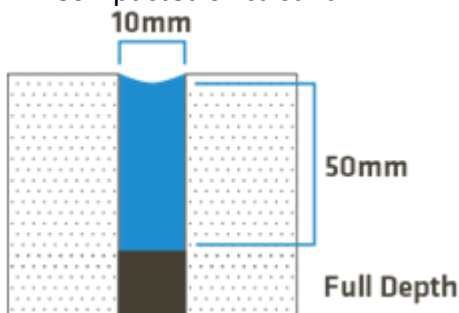
External Trafficked Joint:

- Recessed by 3-5mm to avoid tyre wear and mechanical damage.
- Backing cord minimum 2mm bigger than joint width.

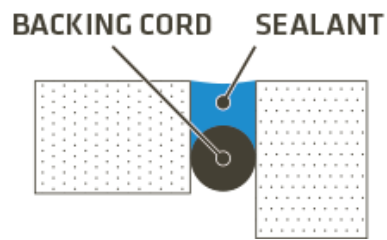


Internal Low Movement Joint:

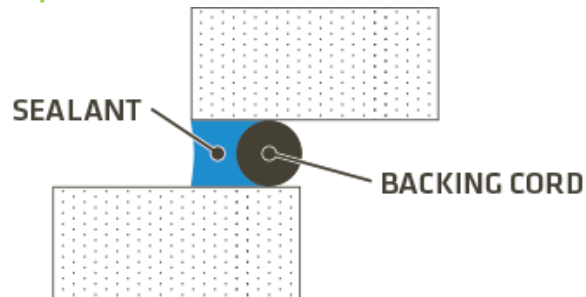
- Minimum 50mm deep.
- No backing cord.
- Compacted silica sand.



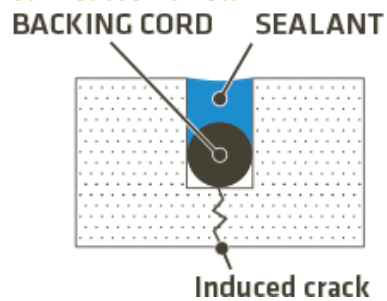
Butt Joint Detail:



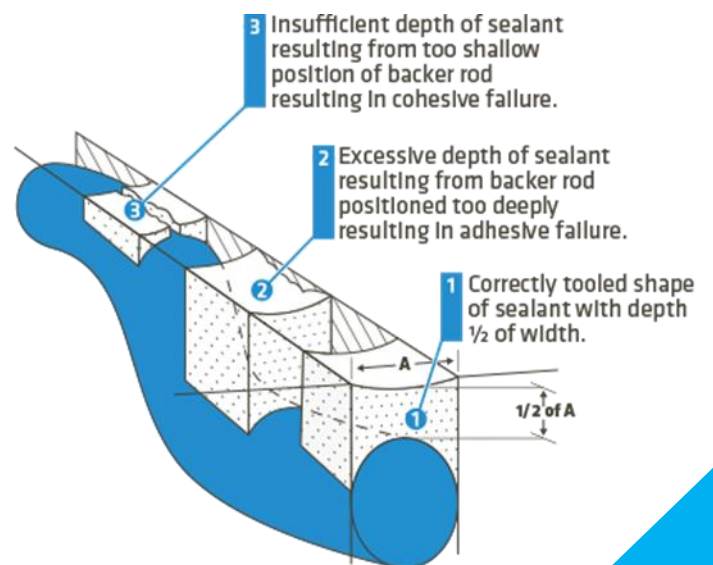
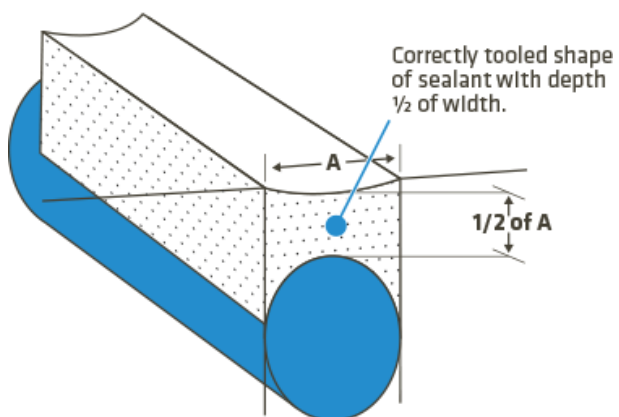
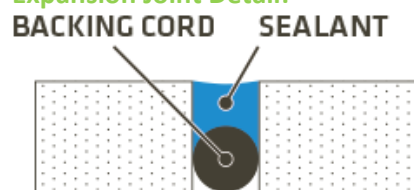
Lap Joint Detail:



Saw-Cut Joint Detail:



Expansion Joint Detail:



Consumption:

Applicable joint length with a 600ml cartridge (in meters):

Joint depth (in mm)	Joint width (in mm)				
	4	6	8	12	20
4	37	25	19	13	7.4
6	-	17	13	8.3	5.0
8	-	-	9.3	6.2	3.7
10	-	-	-	5.0	3.1

Storage and Shelf Life:

Store in a properly ventilated room at a maximum temperature of 30°C. Shelf life is 12 months from the manufacture date, in its original unopened packaging away from humidity.

Limitations:

It is not recommended for use in water retaining structures. If applied to natural stone, we recommend the use of a suitable primer. It is recommended to do a compatibility test prior to application or painting.

Health and Safety:



Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. For further health and safety information refer to the product SDS.



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