



QUICKSET S100

Polyurea Sealant

1.0 Description

QUICKSET S100 is a two component Polyurea Sealant., it offers superior adhesion strength with wide range of substrates, waterproofing, excellent weather resistance, contamination/chemical resistance and elasticity for tackling vary extreme poor condition of environment.

2.0 Advantage

- Nontoxic, Solvent Free, Environmental Friendly;
- Withstand Continuous Dirt Water
- Mildew Resistance

- 100% Solid
- Fast setting
- Strong Hardness
- Zero VOC's

For filling small cracks and joints

3.0 Technical Data

se Polymer	Polyurea
Storage Condition	Keep dry between 5°C&30°C
Shelf Life	12 months @ 25°C
Application Temperature	5°C to 50°C
Tooling Time @23°C 50% RH	3 min.
Curing rate @23°C 50%RH mm/day	30 Min
<u>After Completely cured</u>	
Shore A Hardness(DIN 53505)	75
Service Temperature	-40° C to 90°C
Average Life Expectancy	> 20 years
Resistance to Water	Excellent
Resistance to Chemicals	Good for dilute acids and Alkali, soil and fuel
Resistance to U.V.	Excellent
Resistance to Electricity	Excellent
Flammability	Does not support combustion
Flash Point(DIN 51794)	430°C
Standards Compliance	ISO11600
Colour	Grey.
Dynamic Movement Capability	± 35%
Tensile Strength (DIN 53504, Mpa.)	8
Elongation at Break	300%

3.0 Typical Application

General filling and sealing of gaps, Movement/Expansion joints in pavement, masonry, Swimming Pool, GRC, GRP, Base plate, , Precast concrete panel etc. Stone cladding, marble cladding and E & M fixtures plumbing fixtures and others metal works like vehicle body. Movement Joint subject poor contamination conditions and also heavy traffic area, highway, runways.

4.0 Preparation

All surfaces should be free of dust, oil, grease or other contamination. Loose matter should be removed by abrasion if necessary finally removing the dust by brush. Oil and grease are removed by the use of a cloth moistened with xylene or approved solvent. The cleaning cloth should be replaced regularly to avoid the redistribution of contaminates over the surface. Care should be taken to ensure that all protecting films and lacquers etc is removed prior to the application of the sealant. Further advice on substrate preparation is available from Master Proofer Technical Services Department, where particular surface treatment are encountered, or if even higher adhesion is required.



5.0 Joint Design:

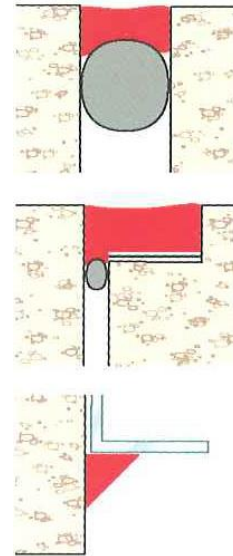
Laboratory tests show that in butt joints an optimum performance is achieved when Width : Depth = 2: 1 For joints moving in shear Depth>Width.

Wide joints may require more applications, allowing the sealant to cure slightly between applications.

If the joint is not deep enough to accommodate the foam backing strip, a self-adhesive polyethylene tape should be used to ensure that the sealant bonds only to the sides of the joint.

When used as a triangular fillet, there should be at least 6mm cover on each substrate and the fillet should be a regular triangle in cross section.

S100 can be over-painted, but in common with other sealants, if significant movement occurs, the paint film will craze to the long-term detriment of the sealant.



6.0 Application

Before starting application ensure that any primer or cleaner has dried fully. Using MP Gun A911 or similar, extrude the sealant into the base of the joint and ensure that complete contact is made with the substrates. Care should be taken to avoid trapping air within the sealant. Select a tool to suit the width of the joint and wet it with clean water containing a little detergent. Working upwards in case of vertical joints, lightly tool the sealant into the joint. This will improve adhesion, reduce air content and end enhance the appearance of the finished joint. If masking tape was used ,be carefully removed, ensuring that it is not dragged across the face of the joint.

7.0 Coverage

The following formula gives the quantity of (8 liter/set) cartridges required:

$$\frac{\text{Joint width x depth(mm}^2\text{) x Length(M)}}{8000} = \text{No. of Set}$$

8.0 Health and Safety

Labond Quickset S100 is free of ISOCYANATES and solvent; it is non-hazardous after completely cured. The working area should be well ventilated. Due to possible irritation, all contact of product with eyes or mucous areas must be avoided. For further information, consult relevant Material Safety Data Sheet.

9.0 Cleaning

Fresh product is easily removed with an organic solvent. For cured polyuria, it can only be removed by mechanical mean only.

10.0 Technical Service

The Marketing and Technical offices of Master Proofer Company Ltd are readily available for advice on any of the Company's products.

11.0 Packaging

MASTER PROOFER S188 is packed in 400g (300ml) / cartridges and 800g(600ml).