PROTAN

SEALANT

Data Sheet

Protan sealant is a single part low modulus neutral curing silicone rubber sealant. It cures on exposure to atmospheric moisture to form a resilient highly elastic seal which maintains flexibility over a wide range of temperatures. Unlike many silicone sealants Protan silicone sealant has a low odour when curing.

Protan sealant is extremely resistant to weathering, ageing and water. It is supplied in ready to use cartridges suitable for application by means of a hand gun.

Recommended use

Protan sealant is suitable for external applications for use in building joints in general, e.g. on concrete, brick, wood and most plastics including PVC-u.

Typical uses include glazing work, and the sealing *of* expansion and connection joints. It is safe to use in food environments and in contact with potable water when fully cured. It conforms to the technical requirements of BS 5889: 1989 Type A.

Limitations

Although suitable for use on cementitious surfaces, staining may occur on natural stone such as marble. It is not suitable for use on polythene, polypropylene or PTFE. Silicone sealant is not suitable for overpainting.

Bonding instructions

1. Ensure that the surfaces to be sealed are clean, dry, firm, and free from grease and dust. Porous substrates must be primed with the appropriate substrate primer.
2. Cut off the tip of the cartridge.
3. Screw the nozzle to the tip and cut to the desired bead size.
4. Apply using a suitable hand extrusion gun.
5. If required, finish off immediately with water containing a little detergent
6. To achieve best results allow to cure for at least 24 hours (rate of cure is approximately 1.5 mm per day at 20°C/65%RH).

Joint design considerations

For conventional construction joints subject to movement, it is important that the dimensional proportions of the joint are correct; ideally the width of the joint should be twice the depth of the joint.

Width: minimum: 5 mm maximum: 30 mm
Depth: minimum: 5 mm

When using Protan Silicone Sealant for sealing typical expansion joints a suitable inert filling material such as closed cell polythene foam should be used to prevent sealant adhesion to the bottom of the joint, thus avoiding excess tension on the sealant.

Cleaner

Use white spirit immediately after application. Typical characteristics:

Physical Form	Non-slump paste
Colour	Grey
Chemical Type	Silicone rubber
Viscosity	Easily extrudable
Shrinkage	Negligible
Specific Gravity	Approx. 1.25
Hardness (Shore A)	25±5°
Temperature Resistance	-60 to +180°C (200°C for up to 30 mins)
Water Resistance	Very good
Resistance to Sunlight and UV Light	Very good
Ageing Resistance	Good
Elastic Modulus	Approx. 0.30 MPa at 100% elongation
Elongation at Break	>800%
Maximum deformation of the join	25%

Storage and Packaging

Protan sealant is supplied 310ml tubes and should be stored under dry conditions between 5° and 25°C

Shelf Life

Two years from the date of manufacture, under the above conditions of storage.

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