

POLYSEAL 40

Version No. 6

Revision Date: 25/03/20

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DESCRIPTION

One-part polyurethane sealant.

KEY FEATURES

Provides a permanently flexible waterproof seal.

Adheres well to a wide variety of surfaces.

Good movement accommodation.

Outstanding performance across a wide range of temperatures and weather conditions.

Excellent resistance to oil, grease and many chemicals.

Capable of withstanding high mechanical loads.

Fast curing paintable formulation.

USES

For sealing and bonding a wide variety of metal assemblies.

Ideal for bedding and sealing of flashings in industrial buildings.

Joint sealing in caravan and motor homes.

Bonding of many common building materials including metal, wood and concrete.

Vibration and noise reduction in many industrial and engineering applications.

Sealing of movement joints in concrete floors.

PERFORMANCE

Adhesion: Good to wood, brick, concrete, glass and many metal surfaces

Base technology: Polyurethane

Chemical resistance: Good to many dilute acids and alkalis

Curing system: Reaction to atmospheric moisture

Mould resistance: Moderate (does not contain a fungicide)

Movement accommodation: ±25%

Resistance to vertical flow: <3mm (ISO 7390)

Shore-A hardness: 45

Elongation at break: 450% (ISO8339)

Shear strength: 1.40 MPa (ISO 4587)

Elastic Recovery: >70% (ISO 7389)

Conforms to: EN 15651-1:F-EXT-INT-CC 25HM
(See DOP2017-1-Polyseal40)

Service life (predicted): 20 years

Application temperature range: +5°C to +30°C

Service temperature range: -30°C to +70°C

Shrinkage: Less than 10%

Specific gravity: Approx. 1.23g/cm³ (dependent upon colour)

Slump: Nil (up to 20mm x 10mm vertical channel)

Staining: Nil

UV resistance: Good †

Volatile content: <8%

Paintability: Can be overpainted with water or solvent based paints once fully cured. Paint within a few days of initial application.

(Please note that the drying performance of oxidation drying paints can be affected and we recommend testing before use).

LIMITATIONS

† Slight Yellowing may occur when while sealant is exposed to UV.
Contains Solvent, do not use in conjunction with Engineering plastics.

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APPLICATION

PROPERTIES

Application temperature range: +5°C to +30°C

Curing rate: Polyseal 40 cures at a rate of 3mm/24hr @ +23°C (50% RH). Lower temperatures and drier conditions will result in a slower rate of cure.

Priming: Primers are not normally required for good adhesion to most non-porous surfaces. Some plastics and painted surfaces may require priming to assist adhesion - please contact our Technical Department for further information.

Shelf life: 9 months in unopened packaging when stored in cool dry conditions.

Skinning time: A skin will begin to form after approximately 90 - 120 mins depending on ambient temperature and humidity.

Working time: Approximately 10 minutes.

INSTRUCTIONS

Joint design: Please consult the **Technical Information Sheet** entitled 'Joint design for cartridge based products' prior to application.

Surface preparation: All surfaces must be clean, dry and free from frost, grease and loose materials. Apply primer if required. In situations where an especially neat finish is required, use masking tape to cover the face edges of the joint and remove immediately once tooling has been completed.

Cut the top of the screw thread off the cartridge and screw on the nozzle. Cut nozzle to correct diameter for joint size. Apply using a skeleton or powered gun into the joint ensuring good contact with surfaces.

Tooling: Tool immediately after sealant has been applied within the working time for the product.

EQUIPMENT

A selection of hand & air operated guns is available for cartridge and/or sausage application including a high power type especially suitable for filling deep voids.

PACKAGING

310ml cartridges – 12 per case

Colours: Black, grey & white

ESTIMATING QUANTITIES

$$\text{Number of cartridges} = \frac{\text{Joint depth (mm)} \times \text{Joint width (mm)} \times \text{Length (M)}}{\text{Volume of cartridge (ml)}}$$

This calculation does not allow for wastage.

HEALTH AND SAFETY

Please consult the Product Safety Data Sheet prior to using this product.

GENERAL

Polyseal 40 is part of a full range of speciality sealants and tapes designed for the professional user. For further information please contact our Customer Care Team or visit our Website.

The information given in this product data sheet is based on laboratory tests and experience which we believe to be correct. Properties quoted are typical and do not therefore constitute a specification. In view of the wide range and variability of substrates, we would advise that our product should be tested by the user to establish suitability for its intended application. E &OE.