



Technical Data Sheet

QUICKMAST 566

Two part Polysulphide Sealant (Gun Grade)

ADVANTAGES:

- Forms a tough elastic rubber seal
- High resistance to climatic extremes and physical damage
- Hard resistance to occasional spillage of dilute acids, diesel, kerosene, lubricating oils.
- Excellent weathering characteristics with resistance to rain, snow, heat and UV light.

PRODUCT:

QUICKMAST 566 is a two part sealant based on liquid polysulphide polymer. The product is recommended for critical joint sealing and for sealing structural expansion joints in most Civil Engineering structures like building superstructures, subways, basements, floors and reservoirs.

Specifications:

Confirms to BS:4254:1983 DIN18540, U.S. TT-S-00230C-1970

Where to use:

Sealing joints in

- a) Subways
- b) Basements
- c) Retaining walls
- d) Reservoirs
- e) Brickwork joints
- f) Expansion joints in buildings and Airport

Standard Packing:

QUICKMAST 566 – 1kg – 3 kg containers

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Description:

QUICKMAST 566 is a two part joint sealant based on LP Liquid Polysulphide Polymer. It is supplied in 1kg, 3kg tins containing a base component and curing agent in the correct proportions, when mixed together, cures to form a tough rubber like material. After curing the sealant exhibits excellent adhesion to all building surfaces including concrete, glass, Aluminium and Stainless Steel. It is recommended for better adhesion, the surfaces must be primed by coating with a primer, QUICKMAST 566 PRIMER.

Joint Preparation:

QUICKMAST 566 sealants are designed for application in the joints between 5 to 50mm wide which are expected to experience cyclic movements. The minimum depth: width ratio should be 1:2. Recommended sealant depths are : 5mm for metals, glass and other non-porous surfaces. 10mm for all porous surfaces. 20mm for the traffic surface joints.

Typical Properties:

Colour	Grey
Temperature during Application	5 to 45°C
Density	1.60 – 1.65kgs / Lt
Solids content	Quickmast 566 must be Fully cured before permanent immersion in water.
Setting time	72 hours at 5°C (approx.) 36 hours 15°C (approx.) 18 hours at 25°C(approx.)
Cure time	8 weeks at 5°C 4 weeks at 15°C 2 weeks at 25°C 8 days at 25°C
Hardness Size	15 – 20
Chemical resistance	Resistance to most alkalies, dilute acids and chemical solutions.
Flammability	burns but does not readily support combustion
Movement accommodation	25% for butt joint and 50% for lap joints.
UV Resistance	Good

Preparation of the joint:

The surfaces to be joined should be clean, dry and free from any loose material, dirt, rust, dust, lacquers, grease and laitance etc. Remove all rust, scale and protective lacquers from metal surfaces. Insert back up material and bond breaker to ensure the right depth to width ratio. For construction or construction joints a bond breaker or back up tapes.

should be used. Where hydrostatic pressure exists, oily bond breaking tapes must be used not foamed back-up strips. For a neat finish, mask the four edges of the joint before priming and remove immediately after tooling is completed.

Priming requirements:

It is recommended that for better adhesion, the surfaces must be primed by coating with a primer. This gives a strong adhesion of the sealant to the substrate.

Quickmast 566 Primer:

For porous surfaces, Quickmast 566 Primer should be applied. It should be used on concrete, stone, brickwork, timbers and unglazed edges of ceramic tiles. One thin coat is sufficient but for excessive porous surface one more coat is required.

Brush application is enough, but over priming should be avoided. QUICKMAST 566 must be applied when the primer is tack free. After 3 hours the surfaces must be re-primed before applying the sealant.

Mixing:

QUICKMAST 566 is a two part polysulphide sealant, the base and the curing agent, contained in the same tin. The curing agent is to be poured in the tin with the base and mixed thoroughly until a homogeneous, uniformly coloured material is formed.

For thorough mixing of the tin, it is preferable to use a slow speed electric mixer, fitted with a paddle stirrer for a full 5 minutes. Only thorough mixing will result in proper curing. After mixing fill cartridge and fix in the gun for application.

Finishing:

QUICKMAST 566 should be tooled to a smooth finish. The excess / dried material should be removed by scraping off and then washing with a brush or cloth with kerosene or cleaning agent. Any waste material from sealant application must be disposed off properly.

Quantity Estimation:

$$Q = 1.6 * L * W * D/1000$$

Where Q = Quantity in kg

L = Length of the joint in meter

W = Width of the joint in mm

D = Depth of the joint in mm

Health & Safety:

As the curing agent consists of heavy metal based oxide avoid skin contact. Wear impervious rubber or PVC gloves and eye protection. Hands should be thoroughly washed off with soap and water before eating or smoking. Cured sealant should not be brushed off due to the generation of toxic flames. Empty container should be carefully

The information given in this data sheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site conditions, etc.

In view of the continuing research and development being undertaken in our laboratories, we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale, which are available on request.

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