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TECHNICAL DATA SHEETS



**SEALS, BONDS & FILLS
WET OR DRY**

Description

Bullet Roof Mega Mastic is the must have addition to every toolbox. Mega Mastic can bond, seal and fill almost anything without a primer even when wet or fully submerged. The unique Bullet Roof® hybrid polymer formulation contains no solvents, and has virtually no odour.

Key Features

Premium quality high modulus sealant that can often be used in wet applications.	Excellent adhesion to PVC-U coated metals, brickwork, slate, tile, lead, steel, aluminium, zinc, copper, brass, stainless steel, glass, polycarbonate, and polyester.
Neutral system, free from isocyanates and silicones.	Adhesive sealing and joining to most substrates.
Non staining, odour free and bubble free curing.	Permanent elastic sealing with high adhesive strength to a wide variety of substrates including wood, concrete, tiles, steel, aluminium, zinc, copper, brass, stainless steel, glass and polyester.
Good movement accommodation.	Highly resistant to ageing and weathering.
Resistant to water, salt water, grease oils, fuels, defrosting liquids, detergents, aliphatic fats, mildew, weak acids and alkali.	Paintable. (Testing recommended)

Uses

Bullet Roof Mega Mastic is a paintable sealant that has been specifically formulated to seal typical joints where a strong bond and high movement is required.

Due to the solvent free nature of Bullet Roof Mega Mastic, it can be used in areas where highly solvented or harmful sealants are not allowed.

Performance

Adhesion: Excellent unprimed adhesion to glass or glazed surfaces, coated metals, brick, PVC-U, polycarbonate, timber

Base technology: Bullet Roof Hybrid

Chemical resistance: Excellent to dilute acids and alkalis

Curing system: Neutral cure

Mould resistance: Good

Movement accommodation: ± 20%

Service life (predicted): 20+ years

Service temperature range: -30°C to +80°C

Shore A hardness: 60 ±5

Slump: None

Specific gravity: 1.59 g/cm³

Staining: Nil

Elongation at break: >350%

Tensile (100% elongation): 2.70 MPa

UV resistance: Excellent

Application

PROPERTIES

Application temperature range: 0°C to +30°C

Curing rate: Cures at a rate of 2 - 3mm in 24 hours at 23°C @ 50% RH. Lower temperatures and drier conditions will result in a slower rate of cure.

Shelf life: 18 months in original unopened packaging in cool, dry condition with temperatures of 0°C to +30°C.

Skimming time: Skin forms after approximately 25 minutes.

Tack free time: Approximately 40 minutes (23°C & 65% RH).

Working time: Approximately <25 minutes depending on conditions.

INSTRUCTIONS

Surface preparation: All surfaces must be clean, dry and free from frost, grease and loose materials. Apply primer if required. Install bond breaker to prevent bond at base of joint where necessary. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. 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. In deep joints, the use of a backing rod is essential to ensure good joint formation.

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.

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 sausage application including a high power type especially suitable for filling deep voids.

Packaging

Available in; 290ml cartridges

Colour: Grey

Estimating Quantities

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

This calculation does not allow for wastage.

Health And Safety

Non-flammable.

There are no known health hazards associated with Bullet Roof Mega Mastic when used as recommended.

Wash hands immediately after use.

See Product Safety Data Sheet for further information.

Limitations

Not suitable for glazing applications.

Do not use in joints deeper than 15mm.

Not for use with marble or natural stone.

Do not use for aquaria construction

Do not use with plastics such as; PP, PE, PTFE or other low surface energy materials.

General

Bullet Roof Mega Mastic is part of a full range of speciality products and tapes designed for professional use. For further information, please contact our Customer Care Team or visit our website. **Product Ref No. BRMM-001**