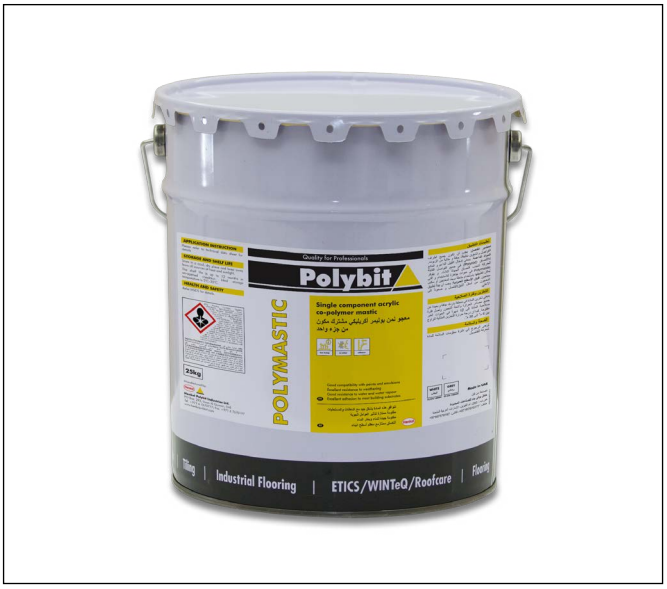
Polymastic

Single component acrylic co-polymer mastic

General purpose paintable sealant for crack filling, gap filling & caulking.

CHARACTERISTICS

- Good compatibility with paints and emulsions
- Can be over painted
- Excellent resistance to weathering
- Good resistance to water and water vapour
- Excellent adhesion to most building substrates. Can be used without the use of primer in new substrates
- Odorless
- Resists mildew and mould growth
- Easy to apply, one component sealant. No mixing required
- Non-staining



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DESCRIPTION

Polymastic is a single component acrylic co-polymer mastic, which is designed for pointing applications. The mastic on curing forms a pliable flexible seal which can accommodate moisture and thermal movements with minimal shrinkage. Polymastic can be used in both horizontal and vertical applications and has a movement accomodation factor (MAF) of ±10%

FIELDS OF APPLICATION

- filling of cracks on concrete walls, ceilings, brickworks and masonry
- filling of gaps between plasterboard panels, architraves, skirting boards
- general purpose caulking
- perimeter sealing around window and door frames

APPLICATION INSTRUCTIONS

Joint preparation

All cracks and joint edges must be clean, dry and free from oil, loose particles, cement laitance and other contaminants which may affect the adhesion. A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose a clean and sound substrate. When applied on glazed surfaces like ceramic or terrazzo tiles or porcelain enamel joint surfaces, the glaze should be removed by abrading with sandpaper or wire brush. Usually priming is not required, however on highly absorbent surfaces, dilute Polymastic with water (1:3 by vol.) and prime the joints with it. The primer shall be applied by a brush in a thin coat application and shall be allowed to become tack free prior to the application of the sealant. For obtaining a clean and neat finish, masking tape shall be applied on both the edges of the joint before the application of the primer or the mastic.

Back-up material

A bond breaking backing rod (Polyrod)* shall be inserted into all movement joints to avoid a three sided adhesion. the diameter of the backing rod shall be at least 20% larger but not greater than 33% of the joint width. This will ensure that the backer rod remains in compression and in place during sealant installation. For static and joints depths which does not allow the installation of a backing rod, a bond breaking tape may be applied to prevent the three side adhesion.

Application

Polymastic is available in a ready to use pail which can applied with a spatula or a putty knife. On vertical areas, the mastic application shall start from the bottom of the crack/joint and continued to the top. Once the mastic has been installed, tool it to obtain a smooth profile. DO

NOT USE SOAPY WATER SOLUTION. Any masking tape applied should be removed immediately after the sealant is installed.

Over coating

Dispersion based paints can be applied after 24 hours of application of the mastic. Solvents based paints can be painted after 7 days of application of the mastic.

CLEANING

Remove all excess mastic with a scrapper. any spillage can be cleaned using a damp cloth. Clean all tools and equipments by clean potable water immediately after the tooling. Hardened materials can be removed mechanically only.

LIMITATIONS

Polymastic is not recommended for:

- joints having a high degree of movement.
- damp and contaminated surfaces
- heavily trafficked floor joints

JOINT DESIGNS

The joint width to depth ratio should be maintained at 1:1 with the following restrictions:

Joint Width

- 6 mm (minimum)
- 20 mm (maximum)

Joint depth

- 6 mm (minimum)
- 10 mm (maximum)

MAINTENANCE

If the sealant is damaged but the bond is intact, cut out the damaged area and recaulk. If the bond has been affected, remove the sealant completely. Clean and prepare the joint in accordance with instructions under "Joint preparation" and recaulk.

STANDARDS

Polymastic complies with the requirements of:
BS 5212: Part 1, ASTM C 920, type S, grade NS, class 12½, Use NT

STORAGE & SHELF LIFE

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air condition rooms. The shelf life is up to 12 months in un-opened conditions and if stored as per recommendations. Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its shelf life.

DISPOSAL

Dispose as hazardous waste. It is recommended to use licensed waste disposal contractors and consult the local authority regarding the regulations.

HEALTH & SAFETY

As with all construction chemical products caution should be exercised. Refer the product msds for full details. Protective clothing such as impervious gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

SUPPLY

Polymastic	25kg pail
Ancillaries & equipments	Polyrod

** Refer to website for TDS*

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Color	White/grey (other colors upon request)	-
Density, [g/cc]	1.5±0.05	ASTM D 1475
Consistency	Thixotrophic paste	-
Shrinkage, [%]	<15	ASTM C 531
Skinning time @ standard condition, [minutes]	60	-
Fullcure @standard condition, [days]	7	-
Application temperature, [°C]	+5 to +40	-
Service temperature, [°C]	5 to 70	-

All values given are subject to 5-10% tolerance

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