

MIXFLEX PS

Two component Poly-sulphide construction / Expansion joint sealant

Mixflex PS is a two component polysulphide sealant which, when mixed cures to form an elastic rubber. It gives excellent adhesion to glass, metal, concrete, masonry, wood and plastic. It's capable of withstanding repeated extension and compression without any loss of adhesion. Mixflex PS 205 gives outstanding resistance to deterioration by weathering, oils, fuel, water, UV exposure, ozone etc. and remains unaffected by most alkalis and dilutes acids

Appropriation

Sealing joints in buildings and structures that are subject to movements

Expansion joints, compression joints, structural joints and joints in in-situ concrete

- Reservoirs
- Aircraft fuelling areas
- Oil terminals
- Garage forecourts
- Concrete Roads
- Parking and cargo areas
- Warehouses
- Industrial Floors

Sealing of joints in cladding, profiled cement based sheeting and metal sheets

Characteristics

Non biodegradable & non-staining

Excellent chemical & weathering resistance

High movement accommodation

Excellent adhesion to most surfaces

Non slump up to 25mm

Available in gun and pouring grades

Technical Data and Properties

Standard conforms: BS 4254-1983; BS 5212-1990

ASTM C920-87, type M, class 25

Appearance: White or grey; Foam: Two-part paste compound

Application temp range: 5 °C to 50 °C

Service temp range: -40 °C to 90 °C

Elongation: 600%

Specific gravity: 1.5

UV Resistance: Excellent

Shore 'A' Hardness: 25

MAF: $\pm 25\%$ in a butt joint (BS: 6093)

Curing: 24 hours at 25°C (Initial) & 7 days (Final)

Solid content: >99%

Pot life @ 25 °C: 'gun grade' - 4 hours; 'pouring grade' - 2 hours

Toxicity: Nontoxic

Product Management

Dosage:

1 litre of material fills the following length of joint in metres

Depth of Joint (mm)	Width of joint (mm)				
	10	15	20	25	30
10	10.00m	6.70m	5.00m	-	-
15	-	4.40m	3.30m	2.60m	2.30m
20	-	-	2.50m	2.00m	1.60m
25	-	-	-	1.60m	1.33m

THE CONSTRUCTION CHEMIST



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Joint preparation

Masonry - Ensure that surfaces are clean and dry. Any loose particles should be removed with a wire brush followed by blowing out with compressed air.

Concrete - Remove any loose particles with a wire brush. If the surfaces are heavily contaminated with mould release or curing agents, it may be necessary to mechanically abrade them. Any loose particles remaining should be blown out with compressed air.

Metal - Surfaces should be free from scale, corrosion and any temporary protective coatings or grease. It may be necessary to wire brush the joints. Clean with suitable solvent

Wood - It is important that the sealant is applied to the base surface. Previously applied paint or primer must adhere permanently or be removed

Priming: Apply a single coat of Mixprime PS by brush. Allow the primer to dry for a minimum of 1 hour. If sealant is not applied within a further 2 hours, re-priming will be necessary

Primer requirement

Porous surfaces (concrete, masonry etc) Primer No. 1

Non porous surfaces (glass, glazed surfaces) Primer No. 2

Joint fillers: Where applicable, suitable joint filler should be used to partially fill the joint in order to provide correct depth to sealant. Suitable material is closed-cell X-linked polyethylene strip or cord

Masking tape: Masking tape may be used to improve the neatness of the finished seal by protecting the face edges of the joint. This should be removed immediately after the Mixflex PS 205 has been applied

Mixing: Combine the base and curing agent and use a slow speed electric mixer (drill) fitted with a suitable paddle to stir until a homogenous mix is obtained. Ensure that the mixing paddle is taken round the sides of the tin so that every particle of material is thoroughly mixed. A pallet knife should be used to scrape round the inside of the tin to return any unmixed sealant to the mass of material

Application: by pouring, gun or knife according to the grade. When using a bulk-loading gun, place over the center hole of the filler plate. Apply steady (downward pressure) whilst drawing the rod of the bulk loading gun. This will result in the barrel gotten filled. Extrude the sealant firmly into the joint by maintaining an even pressure on the trigger of the gun. Ensure complete filling of the joint to avoid slumping. Clean the gun nozzle occasionally to avoid contamination

Tooling & Finishing: To obtain a smooth finish, tool the sealant with a spatula wet with dilute detergent. This breaks air bubbles and exposes any air pockets present whilst compressing the sealant and promoting adhesion to the joint sealant

Packing & Storage

Packing: 4 litres unit for pouring grade; 2.5 litres unit for gun grade

Up to 12 months in manufacturer's sealed containers stored in a cool dry place and away from high temperature (less than 35 °C). Reseal the container after use and ensure product is stored as instructed on the label

Health & Safety

Mixflex PS contains no hazardous substances. As with all chemical products, caution should always be exercised, such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. For more details, please refer to the MSDS released on each Fab product.

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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