

MIXFLEX FR

Single component fire retardant joint sealant

Mixflex FR is a high quality, general purpose single component fire retardant elastomeric acrylic joint sealant which dries to form a very stable seal. It is suitable for low movement joints, both interior and exterior use. It is a non-staining sealant that resists cracking and gives a smooth finish that requires no sanding. It is a paintable caulking sealant. When subject to flame will intumesce (expand and char), thus blocking the passage of fire and smoke. It is not recommended to use in joints subject to high degrees of movement.

Appropriation

Construction joints with low to medium level movement
Plaster cracks, shrinkage cracks
Roof flashing and sealing roof tile joints
Sealing wall corners
Sealing around fire resistance window and doors; between wall and skirting boards
Pointing to brickwork and concrete

Characteristics

Water based
Non flammable & economical
Easily tooled to give good smooth finish
Suitable for both interior and exterior use
Bonds to wide range of building materials
Durable and flexible seal

Technical Data & Properties

Standards conforms: BS EN 11600 F-7.5P
BS 476 Parts 20: 1987
Appearance: Smooth, viscous paste
Specific gravity: 1.5 to 1.6
Application temp: +5^oc to +40^oc
Service temp: -10^oc to 70^oc
Shore hardness (full cured material): 50
Solid content: 80%
Sag: No sag (tested in 30mm channel)
Tack free time: 20 minutes
Full cure: 48 hours (depends up on temperature and humidity)
Flash point: Not applicable
Durability: Good
Skinning time@20^oc / 56%RH: 5 minutes
Temperature resistance: -5 °C to +110 °C
Chemical resistance: Good
UVR: Good
Flammability: Non-flammable
Movement accommodation: Butt joints (movement in tension and compression): 10%
Lap joints (movement in shear): 20%

Product Management

Application: Surface preparation - All surfaces must be clean, dry, and free from dust & any loosely adhering materials. For internal cracks in plaster etc. ensure the shoulders of the crack are widened to a minimum of 3 - 4mm to give adequate penetration and performance

Priming: Priming is not required for most cases, but for porous and dirty surfaces, apply a coat of Mixprime FR as a primer (consult with FAB technical dept.)

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Quantity Estimation

| Joint Size (mm) | Meter per Kg |
|-----------------|--------------|
| 10 x 10 | 10.00 |
| 15 x 10 | 6.66 |
| 15 x 20 | 3.33 |
| 30 x12 | 2.77 |
| 35 x 12 | 2.38 |

Fire test results

| Joint size (mm) (mins) | backing material | Integrity (mins) | Insulation |
|---------------------------|-------------------|------------------|------------|
| 15 x 10 | Foam Polyethylene | 241 | 19 |
| 15 x 20 | Foam Polyethylene | 241 | 40 |
| 30 x12 | Rock wool | 240 | 60 |
| 30 x 12 | Foam Polyethylene | 240 | 118 |
| 35 x 12 | Rock wool | 240 | 112 |

Mixflex FR can be applied with a trowel or spatula. The cartridge pack can be applied with standard sealant gun. For larger areas pressurized application may be used. After application, smooth and compress the sealant in to the joint by using a pallet knife, spoon or similar tool, moistened with water. Protect the edge of joint with masking tape; remove the tape immediately after smoothing.

Where applicable, appropriate joint filler, like rock wool or closed cell polyethylene foam should be used to provide the correct joint depth.

If the next application is a paint base, then an emulsion painting can be carried out after 2 hours and oil-based paint after 6 hours of Mixflex FR sealant application

Cleaning: Clean with mere damp cloth when wet

Packing & Storage

Mixflex FR is available in 25 kg pail. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. Mixflex FR should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Failure to comply with the commended storage conditions, excessive humidity and over exposure to UV may result in premature deterioration of the product

Health & Safety

Mixflex FR contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. 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. 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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