MIXFLEX PU

Single component elastomeric polyurethane sealant

Mixflex PU is a single component high performance gun-grade moisture curing PU sealant designed for a wide range of sealing and caulking applications in active joints, product required no mixing and bonds with almost all building materials without primer in concrete and masonary

Appropriation

Application

- Expansion joints
- Construction joints
- Pre cast concrete units
- Structural joint components
- Curtain wall construction
- Facade panels
- Aluminum panels
- Wooden frames
- Parapets and podium joints

Substrates like…

- Concrete
- Masonry
- Wood
- Aluminum

Characteristics

Ideal for external and internal applications
Suitable for all climates
Easy to gun and tool
Weather resistant
Produces long lasting weather tight seals
No primer required for most construction materials
Compatible with non rigid paints
Wide temperature application range
Low VOC content
Excellent joint movement capability
Provide excellent flexibility for keeping moving

Technical Data & Properties

Appearance: Paste
Colour: white / grey
Solid content: 100%
Movement accommodation factor (MAF) ASTM C719: 25%
Elongation at break % ASTM D412: 500-600% *(90% recovery)*
Hardness A shore ASTM C661: 25-30
Tear strength ASTM D1004: 50
Tensile strength ASTM D412: 350psi
Sag ASTM C639: None
Water resistant: Excellent
Peel adhesion ASTM C794: 15-25pli
Skin time: 2-4 hours @ 24^{0}C : 50%RH
Cure time: 24-48 hours
Weathering accelerated (ASTM 793-91): No effect

MIXFLEX PU

Single component elastomeric polyurethane sealant

Product Management:

Surface Preparation: Surface to be treated must be dry and free from dust, oil, grease, residual curing compound, release oil, paints, wax based curing compounds and water proofing etc. Ensure joints are square before applying. Clean by wire brush, grinding or sand blasting to expose a sound surface free from contamination and laitance. For application in continuous immersion in water contact technical service for recommendations.

Joint preparation: The number of joints and joint width should be designed for a maximum of ±25% movements. The depth of the sealant should be half the width of joint. Maximum depth is 13mm and minimum is 6mm.

Note: contact FAB technical service dept. for detail method statement for different joint preparation recommendations & applications.

Coverage: (mtr/ltr) Joint width in mm

depth in mm	6.4	9.5	12.7	15.9	19	22.2	25.4
6.4	24.8	16.5	12.4	9.8			
10				6.6	5.5	4.7	4.1
13					4.1	3.5	3.0

In deep joints the depth must controlled by closed cell backer rod. Where the joint depth is not permit the use of backer rod, a bond breaker (polyethylene strip) must be used to prevent the three sided adhesion. To maintain the recommended sealant depth, install backer rod by compressing and rolling it into the joint channel without stretching it lengthwise. Backer rod should be about 5mm larger dia than the joint width. Backer rod becomes an integral part of joint and do not prime or puncture it.

Priming: Mixflex PU is generally considered as a non priming sealant, in low to normal movement joints between concrete or other cementitious substrates, the joints edges are properly prepared, no primer is required. In concrete to concrete joints to face high movement the long term performance of the sealant will be improved with the use of Mixprime PU and other substrates.

Application: Mixflex PU comes ready to use, apply by a professional gun do not open cartridges until preparatory work is over. Insert cartridge into gun, cut end off sachet and attach cap and nozzle and cut nozzle to desired bead size. Mask joint side before starting the procedure. Extrude firmly into the joints and tool off using a suitable curved tool. Fill joints from the deepest point to the surface by holding a properly sized nozzle against the back of the joint.
Dry tooling is recommended, do not use soapy water when tooling. Tooling results in the correct bead shape, a neat joint and maximum adhesion.

Curing time:

The cure of MIXFLEX PU varies with temperature and humidity. For a normal 25mm x 12mm joint required the following curing period @25^{0}C

1. For touch skin dry: 48 hours
2. Functional: within 6 days
3. Full cure: approx. 14 days

MIXFLEX PU

Single component elastomeric polyurethane sealant

Cleaning: Clean immediately after use, with Xylene or thinner no. 2. Remove cured sealant by cutting with a sharp edged tool. Remove thin films by abrading.

Packing & Storage:

Mixflex PU is available in 600ml cartridges. Shelf life is one year; the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life.

Health & Safety

Mixflex PU contains Isocyanides. Caution should always be exercised. PPE recommended for maximum safety. Treat any splashes to the skin or eyes with fresh water immediately. Avoid contact with skin, use only well ventilated areas. Keep out of reach of children. For more details, please refer to the MSDS released on each Fab product

Rev. Jul-12/01

Group Head office:
PYCHEM Co. L L C
Post Box 23940, Sharjah.
Te: +971 6 5420414 / 5431636
Fax: +971 6 5421446
Mail: mail@fab-cc.com
fabchem@gmail.com

Under Technical Collaboration with
MIX UK Limited
Cherry Tree House, Cherry Tree Lane
Rostherne, Cheshire,WA143RZ
Web: www.mixuk.com

Head office:
T33A/1, Thryambhava Houses
Kalapetty road,Coimbatore – 14
Tel: 0422 3222245
Fax: 0422 2625207
Mail: mail@fab-cc.com
fabchem@gmail.com

THE CONSTRUCTION CHEMIST

FABCHEM

PYCHEM