

MITCH FLEXOPU

New Generation Single Component Polyurethane Sealant

DESCRIPTION

MITCH FLEXOPU is single part gun grade moisture curing low modulus polyurethane sealants, which cure at room temperature 25°C to an environmentally safe, flexible sealant.

USES

MITCH FLOXPU is designed for sealing of expansion and contraction joints, caulking of joints of facades, curtain wall panels, sealing of window and door joints, sealing of connecting joints between wall and windows. Typical substrates include concrete, brickwork, natural and synthetic stone, steel, aluminum, wood, ceramic tiles, and rigid plastic, such as UPVC and poly-carbonate

ADVANTAGES

- High performance polyurethane sealant
- Highly durable
- Excellent adhesion to concrete surfaces as well as brick, steel, glass, aluminum and wood
- Good chemical resistance
- Accommodates the movements of joints
- Resistant to ozone and ultra violet radiations
- Easy to use
- Joint movement capability $\pm 25\%$
- Requires no mixing; reduces labor costs
- Provides excellent flexibility for keeping moving joints tight
- Speeds application and makes neater joints
- Reduces jobsite waste, lowers disposal costs
- Matches common substrates
- Lowers installation costs
- Produces long-lasting weather-tight seals
- Suitable for all climates
- May be painted

PHYSICAL PROPERTIES OF WET MATERIAL

Base	Polyurethane
Density	1.44 g/cm ³ (DIN 53479)
Dilution	Do not dilute
Flash Point	25° C
Standard colors	White, Grey
Viscosity	Paste, Non-Sag

PHYSICAL PROPERTIES OF DRY MATERIAL

Service Temperature	-40°C - +80°C
Movement accommodation factor	Total movement must never exceed 25% of neutral width of the joint
Elastic recover (DIN 52458)	80%
Elastic modulus @ 100% (DIN 52455)	0.2 N/mm ²
Elongation @ break (DIN 544504)	800%
Hardness Shore A (DIN 53505)	-35 – 45
Tack free time @ 25° C and 50% RH	Approx.40 minutes
Cure time @ 25° C and 50% RH	2-3 mm at 24 Hours
Tensile Strength	2.4 N/mm ²

SURFACE PREPARATION

- All joints should be thoroughly cleaned and any foreign matter blown out.
- All old caulk or sealant should be removed. Care should be taken to remove any surface alkaline deposit from cement or concrete.
- Clean all glass or aluminum surfaces with a mineral spirit or mild solvent prior to apply the sealant.

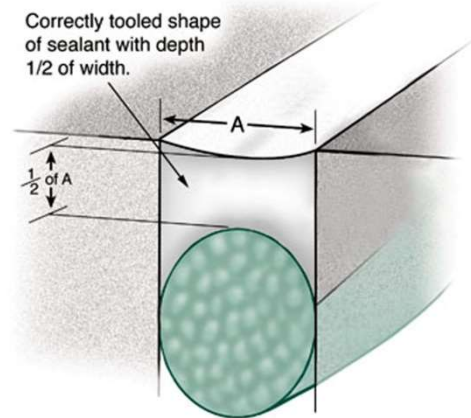
JOINT PREPARATION

- The number of joints and the joint width should be designed for a maximum of + 25% movement.
- The depth of the sealant should be ½ the width of joint.
- In deep joints, the sealant depth must be controlled by Closed Cell Backer-Rod or Soft Backer Rod.
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- Where the joint depth does not permit the use of Backer-Rod, a bond breaker (polyethylene strip) must be used to prevent 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.
- Closed-Cell Backer-Rod should be about 5mm larger in diameter than the width of the joint to allow for compression.
- Soft Backer-Rod should be approximately 25% larger in diameter than the joint width.
- Backer-Rod becomes an integral part of the joint. The sealant does not adhere to it, and no separate bond breaker is required. Do not prime or puncture the backer rod.



PRIMING

MITCH FLOXPU is generally considered a non-priming sealant, but special circumstances or substrates may require a primer. It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application.

Apply primer full strength with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces. Porous surfaces require more primer; however, do not over apply.

Allow primer to dry before applying **MITCH FLOXPU**. Depending on temperature and humidity, primer will be tack free in 15-120 minutes. Priming and sealing must be done on the same work day.

APPLICATION

MITCH FLOXPU comes ready to use. Apply by professional caulking gun. Do not open cartridges or sausages until preparatory work has been completed.

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.

Tooling results in the correct bead shape, a neat joint, and maximum adhesion.

CLEAN UP

Immediately after use, clean equipment with Xylene Use proper precautions when handling solvents.

Remove cured sealant by cutting with a sharp edged tool. Remove thin films by abrading.

PACKAGING

MITCH FLOXPU is available in 600 ml sausage cartridges, 20 sausages to a carton.

SPECIFICATION COMPLIANCE

MITCH FLOXPU complies with the requirements of DIN 1854/F and ISO 11600/F/25LM.

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COVERAGE	
Coverage for estimating purpose	
Cross section of joint (mm)	M per cartridge (600ml)
30 x 15	1.33
25 x 12	2.00
20 x 10	3.00
15 x 8	5.00
10 x 8	7.50

CAUTIONS

- Do not allow uncured **MITCH FLOXPU** to come into contact with alcohol-based materials or solvents.
- **MITCH FLOXPU** should not come in contact with oil-based caulking, uncured silicone sealants, polysulfides, or fillers impregnated with oil, asphalt, or tar.
- In cool or cold weather, store container at room temperature for at least 24 hours before using.
- **MITCH FLOXPU** should not be used for continuous immersion in water.
- Do not apply over freshly treated wood; treated wood must have weathered for at least 6 months.
- Substrates such as copper, stainless, and galvanized may require the use of a primer; **MITCH EPO PRIMER** 1 or 2 is acceptable.
- Lower temperatures and humidities will extend curing times.
- **MITCH FLOXPU** can be painted over provided it is fully cured and clean. When painting over any elastomeric sealant, use a paint that is also elastomeric. (If movement occurs, the paint will also move.).
- Proper application is the responsibility of the user.