MAXFLEX® EU

Two Component, Heavy Duty Epoxy Urethane Joint Sealant

Maxflex® EU two part pouring grade sealant is formulated from a blend of epoxy and urethane polymers. The mixed sealant is self levelling and can be poured directly into horizontal joints to form a tough resilient seal possessing a limited degree of flexibility.

Maxflex® EU is available in a range of attractive colours with separate colour pack providing visual mixing control.

Uses

For sealing internal floor joints subject to heavy industrial use in factories, food processing areas, warehouses and maintenance facilities. Particularly suitable for sawn joints in long strip floorings and large internal areas.

Benefits

- Load bearing for support of areas under heavy wheel loads.
- Good resistance to chemicals and hydrocarbon fuels.
- Excellent adhesion without primer to dry clean concrete.
- Pouring Grade ensures ease of placing.
- Suitable for use in wide joints.
- Self levelling to produce uniform and neat joints.

Technical Support

An experienced technical advisory team is available to give technical service on request.

Specification

Joints shall be sealed where designated using Maxflex® EU, epoxy urethane sealant manufactured and supplied by Thermax. The sealant shall be applied strictly in accordance with the manufacturer's current technical data sheet.

Design Criteria

Joints should be designed so that total movement due to concrete shrinkage and thermal change does not exceed the 10% movement accommodation factor related to the joint width. We would recommend that joints to be sealed with Maxflex® EU are left till the final stages of construction when internal temperatures have stabilized and initial concrete shrinkage has taken place. The bulk of concrete shrinkage will take place within the first 28 days therefore sealant works should be delayed for this minimum period.

Joint Width (mm)	Sealant Depth (mm)
6-12	Equal to width
12-25	12-20
Over 25	½ to ¾ width

Properties

Movement Accommodation Factor (BS 6093)	10%
Cure Time @ 30ºC	
Initial	12 hours
Final	2 days
Application Temperature	5ºC to 40ºC
Pot Life @ 25ºC	60 minutes
Solid Content	100%
Specific Gravity	1.38-1.42
Shore 'A' Hardness	60-80
Chemical Resistance	Good resistance to most common mineral acids,alkalis, petroleum based fuels and steam.

Instructions for Use

Joint Preparation

Joint surfaces must be clean, dry and free from laitence dust or any other foreign matter. All dry residual dust from joint cutting operations should be completely removed using a rotary power brush, dry abrasive blasting or other approved means. Blow all joints clean using dry oil free compressed air.

Closed cell polyethylene foam backing rod shall be used wherever required. Debonding tape should be used in the base of all joints except where foam backing rod is used.

Where a neat finish is required, masking tape should be applied down each side of the joint prior to the start of the sealant works, it should be removed immediately after the sealant works are complete.

Priming

Priming is not normally required when using Maxflex® EU in dry, sound, well prepared joints, or joints which have been reformed using a Thermax resin based repair mortar. Where optimum adhesion is required or where joints may be totally immersed in water, Tecfloor PR should be used.

MAXFLEX® EU

THERMAX

Mixing

The components of Maxflex® EU are supplied in the correct mixing ratio. Add the entire contents of the colour pack and hardener component into the base container and mix together thoroughly for three minutes using a slow speed drill (300 to 500 rpm) fitted with a mixing paddle. Ensure any settlement is thoroughly dispersed. The sides of the container should then be scraped down to ensure that any unmixed components do not remain. Mixing should then continue for a further 2 minutes.

Application

The mixed Maxflex® EU can be poured directly from the mixing container by compressing the sides to form a pouring lip. Pour into the prepared joint to the required level, should the joint width prohibit direct pouring from the container, the mixed material can be poured into a Sealant gun and applied to the joint.

It may be necessary after a few minutes to top up the level of the sealant after it has flowed into all joint irregularities. Finally, strip off any masking tape that may have been used.

Cleaning

Clean tools immediately after use with Cleaning Sol. Clean hands with a proprietary hand cleaner.

Limitation

Maxflex® EU is not intended for use in vertical joints, for further advice contact the Technical Department.

Health and Safety Instructions

Some people are sensitive to epoxy resins so gloves and a barrier cream are recommended to be worn when handling these products. If contact with the resin occurs it must be moved before it hardens followed by washing with soap and water do not use solvent. In the event of contact with the eyes wash liberally with clean cold water and seek medical advice.

Fire

Cleaning Sol and Tecfloor® PR are flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO_2 or foam. Do not use a water jet.

Flash Points

Tecfloor® PR: 29ºC
Cleaning Solution: 33ºC

Storage

12 months in original containers stored in cool dry conditions i.e. not exceeding 25ºC. Storage above this temperature may reduce storage life.

Packing

Maxflex® EU: 4 litre pack
Tecfloor® PR: 1 and 4 litre pack

Guide to Sealant Quantities

Number of litres required =
{Joint Width (mm) × Sealant Depth(mm) × Joint Length(mm)} / 1000

Coverage

Tecfloor® PR: 5.5-6.5 m^2 /ltr

MAXFLEX® EU

THERMAX

Thermax Limited
Environment House, Plot No.90-92
BG Block, MIDC, Bhosari,
Pune 411 026, India.
Tel: +91-20-67156000
Fax: +91-20-27120206
Customer Care: 18002090115 (India toll free)
Email : enquiry@thermaxglobal.com

Ahmedabad
Tel: +91-79-26575408 • Fax: +91-79-65577270

Bengaluru
Tel: +91-80-22371721 • Fax: +91-80-22371726

Chennai
Tel: +91-44-24303400 • Fax: +91-44-24353841

Delhi
Tel: +91-11- 46087200 • Fax: +91-11- 26145311

Hyderabad
Tel: +91-40-23253700 • Fax: +91-40-23253799

Kolkata
Tel: +91-33-66070800 • Fax: +91-33-66070999

Mumbai
Tel: +91-22-67542222 • Fax: +91-22-22040859

Thermax World-wide

UK, USA, UAE, Germany, Belgium, Denmark, Russia, Saudi Arabia, Thailand, Malaysia, Bangladesh, Sri Lanka, China, Philippines, Peru, Chile, Kenya, Nigeria, Brazil, Indonesia

Website: www.thermaxglobal.com

Thermax Business Portfolio

- Chemicals
- Absorption Cooling
- Air Pollution Control
- Boilers &Heaters
- Power
- Water & Waste Solutions
- Solar

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives