

MONNELI ELASTOSEAL EPU

Heavy Duty Epoxy Urethane Joint Sealant

Product Description

A two component self-leveling epoxy modified polyurethane joint sealant. It can be poured directly into horizontal joints in order to form a tough resilient seal containing a limited degree of flexibility.

It can accommodate small amount of movement in expansion and contraction but can take high compressive stresses.

Uses

ELASTOSEAL EPU is mainly used in sealing internal floorjoints of heavy wheeled, traffic flicked areas and places subjected to heavy industrial use such as factories, food processing areas, warehouses and maintenance facilities.

Also suitable for sawn joints in long strip flooring and other large internal areas like car parking decks, warehouses, etc.

Ideally suited for stress relieving areas like swimming pools, compression joints and other prolonged water immersion areas.

Advantages

- Easy to apply and cures rapidly
- Excellent adhesion to concrete and asphaltic substrates
- Extremely resistant to chemicals and hydrocarbon
- Self-leveling to produce uniform and neat joints
- Permanent and uniform water tight seal
- Suitable for use in wide joints
- Good mechanical properties for heavy duty limited movement applications

- Load bearing for support of arises under heavy wheel load
- Suitable for extreme weather conditions
- Compatible for use in horizontal areas with a maximum slope gradient of 10%.

Instructions for Use

Surface Preparation

Joint Preparation

The joint surface must be clean, dry and free from oil, loose particles, cement laitance and other contaminants which may affect the adhesion. A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose a clean and sound substrate. The compressible joint filler shall be cut back to expose a uniform joint depth.

Priming

SEALPRIME should be applied to clean, dry surface prior to the installation of backer rod or bond breaking tape. The primer shall be applied by a brush in a thin coat application and shall be allowed to become tack free prior to the application of the sealant. The joint edges shall be re-primed if the sealant installation is not carried out within 3 hours of application of the primer. For obtaining a clean and neat finish, masking tape shall be applied on both the edges of the groove before applying the primer.

Mixing

ELASTOSEAL EPU is supplied in pre-weighed two part packs, which requires on site mixing. Pour the hardener (PART B) into the base (Part A) pail and mix thoroughly with a slow speed drill (300-400 rpm) fitted to a flat bladed paddle for 5 minutes till a uniform colour and consistency is achieved.

Since the base and the curing agent ratio controls the ultimate physical properties like adhesion, durability and strength, one complete kit has to be mixed at a time. The side and base of the container shall be periodically scrapped with a scraper to ensure that the curing agent is properly dispersed and blended in the mix.

Application

Pour the mixed material directly into the joint from the pail. Initially fill 2/3 of the sealant, tool it properly allowing it to fill all the irregular areas inside the joint. The tooling will also allow entrapped air to escape. Then pour the balance 1/3 material and further tool it to get a smooth surface finish. The material should be used completely within the specified pot life. Once the sealant has been installed a suitable rounded tool soaked in soapy water can be used to achieve an hour glass profile. Any masking tape applied should then be removed immediately after the sealant is installed.

Cleaning

Clean the used tools with SOLVENTE 10 immediately after completing the job and before the product dries.

Recommendations

- ELASTOSEAL EPU is not recommended for use in vertical joints, movement joints having MAF > 10%.
- ELASTOSEAL EPU should never be applied on damp and contaminated surfaces.
- Do not over paint ELASTOSEAL EPU. It is best to check compatibility with sealant prior painting application.
- ELASTOSEAL EPU is not compatible for use in areas with Slope Gradient > 10%.

Applicable Standards

- BS 5212: Part 1
- ASTM C 920, Type M, Grade P Class 12

Consumption

Qty (Liters) =

$$\frac{\text{Joint: width (mm) x depth (mm) x length (m)}}{1000}$$

Joint Design

Width	Depth
6 - 13	Equivalent to width
13 - 25	½ of width
Over 25	½ to ¾ of width

Technical Data

Properties	Results
Viscosity	Free flowing
Density at 25°C	1.25 kg/L
VOC	1.3 g/L
Pot life	60 minutes
Solid content (ASTM D2369)	100 %
MAF	± 10%
Compressive strength at 7 days	16 N/mm ²
Elongation (ASTM D 412)	150%
Tensile strength (ASTM D 412)	5 N/mm ²
Shore A' hardness	75
Chemical resistance	Excellent
Initial cure at standard	24 hours
Full cure at standard condition	7 days
Application temperature	+5 to 35°C
Service temperature	5 to + 80°C

All values are subject to 5-10 % tolerance

Storage

Keep the product in dry and covered shed. Exposure to extreme temperature and humidity results in the deterioration of the product's efficiency and reduces its shelf life.

Health & Safety

Avoid contact with skin or eyes. During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

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