

EMULSEAL PU MASTIC 40

ONE COMPONENT ELASTOMERIC POLYURETHANE JOINT SEALANT

DESCRIPTION:

EMULSEAL PU MASTIC 40 is a single-component, moisture-curing, thixotropic, polyurethane-based, high mechanical strength, elastic joint sealant. It is suitable for indoor and outdoor applications.

APPLICATION AREAS:

- It is used for indoors and outdoors applications for;
- vertical or horizontal, interior and exterior expansion joints of structure,
 - combination and movement joints in the floor
 - parapet corner joints in the roofs and terraces,
 - combination details of the prefabricated elements,
 - moving joints that is up to 25%,
 - roof gutters and parapet joints,
 - windows and doors edges.
- For permanent elastomeric sealing and adhesion applications in the building construction and civil engineering industries.
- Suitable for vertical and horizontal joints
 - Waterproof joints in potable water reservoirs.
 - Sealing between ceramic or earthenware tiles.
 - Flexible connection joints between concrete floors and machinery.

TECHNICAL DATA:

Type	: Moisture-cured, one component polyurethane sealant
Standart Colors	: White, grey
Density	: 1,15 gr/cm ³
Elongation at break	: >% 500
Shore A Hardness	: 40±5 shore A
100% Elongation	: >0,4 MPa
Force at the Moment of Rupture	: 1,4±0,2 MPa
Application temperature	: +5°C / +30°C
Cure rate	: ~ 1-3 mm / 24 hr (+23°C / %50 r.h)
Service temperature	: -30 °C/+80 °C
Tack free time	: 1 - 2 hours

ADVANTAGES:

- It is elastic. It retains its elasticity between temperatures of -30°C and +80°C.
- It is single-component. Easy and quick to apply.
- It can be painted after curing.
- It is ready to use. It is cold applied.
- It has the ability to cure with the moisture in the air.
- It has high elasticity.
- It provides excellent adhesion to concrete, metal, wood and other construction materials.
- It can be applied without primer on many surfaces. It has very high adhesion to the surface it is applied to.
- It cures without bubbles.
- It has chemical resistance.
- It is thixotropic; it does not sag in vertical and overhead applications.

JOINT PREPARATION:

The width of the expansion joint should be at least 8 times of the calculated concrete work value. The sealant should be determined according to other special conditions for false joint or if the joint is wider than 4 cm.

During the application the base material should be used to obtain a suitable joint thickness. Thickness of the base material must be 10-20% more than the width of the joint and it should be placed in compression.

Bonding tape to the joint edges prevents the concrete surface from stain which may occur due to flooding the primer or sealant. Applications finished tape should be removed immediately.

Joint Design:

(Approx: Depth / Width = 1/2).

Movements in the joints must not exceed 25% of the joint width.

SURFACE PREPARATION:

All surfaces must be clean, dry and free from any loose particles or surface contaminants such as dirt, dust, oil, grease, etc.

EMULSEAL PU MASTIC 40 can also be applied without primer, but for optimum adhesion at high performance applications, the use of substrate primer **PU-ASTAR** and cleaners is recommended.

APPLICATION:

Using polyethylene backer rod prevents adhesion of EMULSEAL PU MASTIC 40 to the bottom of the joint (this gives bidirectional mobility). Rod's diameter should be greater than about 10-20% of the joint width. The joint width and depth must not be less than 5mm. If the joint width is up to 15 mm, it should be equal to the joint depth. If the joint is wider than 15 mm, joint depth should be adjusted between 20-25mm.

For manual applications, the material is inserted to the gun and injected into the joint without occurrence of air bubbles.

The minimum joint width should be 10 mm for the window edge's joints.

Because of sensitivity of EMULSEAL PU MASTIC 40 to water, joints should be dry and contact with water should be avoided until full hardness is achieved.

CLEANING OF TOOLS:

Clean tools immediately after use with cellulosic thinner. Cured sealant can only be removed mechanically.

SHELF-LIFE:

12 months from date of production in proper storage conditions.

If the package is opened, product must be consumed immediately.

Expiry date is on the packaging.

PACKAGING:

600 ml sausage / 24 pieces / box

PRECAUTIONS:

EMULSEAL PU MASTIC 40 should be prevented from freezing while in package.

Avoid direct sunlight and heat.

It is flammable, so during application avoid smoking, lighting fire or using appliances (ventilator, etc.) which may cause sparking. Keep away from sources of ignition - no smoking .

Keep out of reach of children.

The eyes and the skin should be protected while working with all kinds of chemicals.

Because this bulleting has been prepared considering the general conditions only, for the details except for the ones written above, please request additional written information otherwise no responsibility will be assumed due to the faults arising because of the insufficient data.

This technical bulletin invalidates the previous ones regarding this product.