

PUMAST 600

Polyurethane Based, One Component, Joint Sealant

Description

PUMAST 600 is a highly elastic, low modulus polyurethane sealant, with good UV resistance and excellent adhesion to typical construction materials. **PUMAST 600** is one component and cures with moisture to form a flexible sealant which can be overpainted after curing is finished. The sealant is non sagging, highly thixotropic, easy smoothing and has good workability. It is a perfect product for all types of static and dynamic expansion joints of structural members.

Certified according to CE norm EN 15651-1 and EN 15651-4.

Fields of Application

- **PUMAST 600** is designed for civil and industrial movement, expansion, control and dilatation joints in architectural and heavy construction.
- To be used as a sealant between concrete, mortar, brickwork, natural and synthetic stone, metal, steel, aluminum, wood, ceramic tiles, rigid plastics etc.
- It can be used in drinkable water tanks safely.

Features and Benefits

- Very elastic.
- Protects elasticity between -30 °C to +80 °C.
- One component. Easy to apply.
- Cures with the humidity in the air.
- It can be used in drinkable water tanks safely.
- No need primer before **PUMAST 600** for many surfaces.
- Provides excellent adhesion on concrete, metal, wood and other surfaces.
- Resistant to water, seawater, diluted alkalis, cement grout and water dispersed detergent.

Technical Data

Content	Polyurethane
Color	White / Grey / Black
Density	1,15±0,03 g/cm ³
Elongation at Break	>%600
Shore A Hardness	25,40 ve 50

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Modulus 100%	>0,4 MPa
Tensile Strength at Break	1,4±0,2 MPa
Tear Strength	8±0,5 N/mm
Movement Capability	%25
Elastic Recovery	>%70
Drying Rate	2 mm / 24 hours
Service Temperature	-30°C to +80°C
Application Temperature	+5°C to +35°C
Drying Time	
<i>Touch drying</i>	<i>60-90 minutes</i>
<i>Full curing</i>	<i>24 hours</i>
HS Code	3214.10.10.00.12

Application Procedure

Preparation of Substrate

All surfaces must be perfectly clean, dry and free from dust and grease. Since Pumast 600 is affected by water, the joints must be dry and contact with water must be prevented until full hardness is achieved. Where necessary apply a coating of primer on the joint walls. Use **PU 101 A** for porous (absorbing) surfaces like concrete, mortar etc.

Application Method

The sealant should not adhere to the joint bottom; the use of a joint backing rod is recommended. The width and depth of the joint must not be less than 5 mm. Cut off the top of the cartridge cap. Screw on the plastic nozzle and cut at an angle of 45°. Always test adhesion prior to application. In manual applications, the material is placed in an application gun and injected into the joint without causing the formation of any air bubbles.

Joint Dimensions

Max. width: 25 mm

Min. depth: 6 mm

Recommendation sealing: joint width = 2x joint depth.

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Consumption

1,15 kg/lt. For example; needed 115 g/m for 10 mm x 10 mm joint.

Packaging

600 ml sausages - 20 pcs/box

280 ml cartridge – 25 pcs/box

Shelf Life

12 months in original, unopened package.

Storage

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

Cleanup Information

Clean tools and equipment with cellulosic thinner immediately after use. Dried material can only be removed mechanically.

Cautions / Limitations

- The width and depth of the joint must not be less than 5 mm.
- It cannot be used on bituminous substrates, natural rubber, EPDM rubber, PE, HDPE, Teflon, polysulfide, other building materials that might bleed oils, plasticizers or solvents which could attack the sealant.
- It is suggested to use cartridge or sausage 24 hours after opening.
- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +30°C.
- Avoid heavy traffic for 24 hours.

Health and Safety

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Warning! Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

Limited Warranty: This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.