

## PUK 401

### Polyurethane-Coal Tar Based, Two Component, Joint Sealant

#### Description

**PUK 401** is a polyurethane-coal tar based, two component, cold applied, self-leveling joint sealant with excellent adhesion performance, abrasion, UV light, mechanical, chemical and jet fuel resistance.

#### Fields of Application

- **PUK 401** is produced especially for airports, runways, park areas, hangars, loading areas.
- It is suitable for road and concrete areas such as in tunnel, bridge, canals, petrol stations, stadiums, sidewalks, refinery and petrochemicals, harbor and other industrial facilities.
- It is suitable for all kinds of horizontal outdoor joints.

#### Features and Benefits

- Provides permanent high elasticity at temperatures between -35°C to +85°C.
- Cold applicable.
- Suitable for joints of expressways and roads with heavy traffic conditions.
- Resistant to abrasion.
- Has excellent adhesion on different surfaces such as concrete, wood, metal etc.
- Resistant to UV.
- Resistant to jet fuels, oils, acids and bases.

#### Technical Data

Content	Coal Tar – Polyurethane Based
Density	1,25 g/cm <sup>3</sup>
Solid Content	96%
Shore A Hardness	25±5
Adhesion/Cohesion Properties	No Adhesion/Cohesion at 0,31 MPa (TS EN ISO 9047)
Hydrolysis Resistance	40% (TS EN 14187-5)
Burning Resistance	Proper (TS EN 14187-7)
Mass and volume change after immersed test fuel	Mass 8% / Volume 10% (TS EN 14187-4)
Adhesion/cohesion properties after immersed chemicals	No adhesion/cohesion (Class D) (TS EN 14187-6)

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Volume Loss	2,7% (TS EN ISO 10563)
Sagging Resistance	No sagging (TS 1092)
Tensile Modulus	0,16 MPa (at 23°C) / 0,22 MPa (at -20°C)
Elasticity recovery	80% (TS EN ISO 7389)
Service Temperature	-35°C to +86°C
Application Temperature	+5°C to +35°C
Pot Life	30-40 minutes
Drying Time	
<i>Touch dry</i>	48 hours
<i>Mechanical strength</i>	7 days
HS Code	3214.10.10.00.12

### Application Procedure

#### **Preparation of Substrate**

The surface must be dry and clean before application. All joints before filling shall be carefully cleaned by metal brushing or sanding. The dust should be removed by pressured air. **PUK 401** causes foaming when applied on moist surfaces. Therefore the joints must be dry and the sealant must not contact water until chemical curing occurs.

#### **Application Method**

Component A and B is mixed under low speed mixer until homogenous mixture obtained. Mixture must be used within 30-45 minutes. Otherwise gelling occurs and it cannot be recovered.

### Consumption

1,25 kg/lit

### Packaging

A component + B component = 5 kg set

### Shelf Life

12 months in original, unopened package.

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### 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 industrial type solvents immediately after use. Dried material can only be removed mechanically.

### Cautions / Limitations

- Do not smoke, fire and use sparkle tools during the application.
- Do not apply on moisture surface.
- 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 +35°C.
- Avoid heavy traffic for 48 hours.

### Health and Safety

**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.