

PUR 421

Hybrid Polyurea

Description

PUR 421 is a two component hybrid polyurea coating system with very fast setting, rapid curing and flexible properties. It provides seamless and long-term durable waterproofing and floor coating. It is applied at high pressure with heated multi-component spraying equipment.

Fields of Application

- Roofs
- Terraces
- Industrial surfaces
- Roads
- Parking Lots
- Pipes
- Car bedliners
- Pools

Features and Benefits

- Fast reactivity and fast curing.
- Seamless and jointless coating.
- Application on vertical surfaces
- VOC free.
- Chemical resistance.
- Impact and abrasion resistance.
- Corrosion protection.

Technical Data

Content	A: Isocyanate Prepolymer – B: Amine Resin
Color	Broad Color
Solid Content	100%
Density of mixture	1,00 – 1,10 g/cm ³
Hardness	85-95 Shore A (DIN 53505)
Elongation at Break	400-500 % (ASTM D 412)
Tensile strength (MPa)	10-15 (ASTM D 412)
Tear strength (N/mm)	15-30 (ASTM D 624)

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Tack free time	17-20 sec
Gel time	8-10 sec
HS Code	3208.90.91.00.23

Application Procedure

Preparation of Substrate

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum. Weak concrete must be removed and surface defects such as voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface leveling must be carried out using appropriate products.

Application Method

A and B component must be stirred with using a barrel mixer until getting homogenous mixture and color obtained. A and B component must be applied by using a two components high pressure and heat spray machine. The application temperature should be between 70-80°C, and the application pressure should be between 120 and 200 bar.

Mixing ratio by volume: A Component: 220 / B Component: 200

Process temperature: A Component: 70-80°C / B Component: 70-80°C

Process pressure: 120-200 bar

Consumption

For 1 mm thickness polyurea coating 1,1-1,2 kg/m².

Packaging

A component: 220 kg barrel – B component: 200 kg barrel

Shelf Life

12 months in original, unopened package.

Storage

Store in dry area between +20°C and +30°C. Protect from moisture, heat, freezing and direct sunlight.

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Cleanup Information

Clean tools and equipment with industrial type solvents immediately after use. Dried material can only be removed mechanically.

Cautions / Limitations

- It may be harmful with eye and skin contact.
- Avoid breathing vapors.
- The cured coating may exhibit discoloration when exposed to sunlight
- Wear suitable protective clothes, gloves and eye protection equipment.
- 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 -10°C and above +50°C.
- Avoid heavy traffic for 24 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.