

Chemiko PU-40

ONE-PART NON-SAG POLYURETHANE SEALANT

1/1/2017



DESCRIPTION

Chemiko PU-40 is a one-part Polyurethane Sealant composed of polyurethane polymer, pigment, filler & additives. It is used for filling and sealing joints in buildings & structures. It is highly elastic & resilient; weather durable, non-sagging, watertight with excellent adhesion to almost all building construction materials. It can be over coated.

Area of Application

- Sealing of expansion and construction joints in high-rise buildings, basements and flooring.
- Sealing joints between precast concrete panels.
- Sealing joints between tiles, bricks, marble etc.
- Sealing joints of metal container finishing.
- Repairing of non-moving concrete cracks and control widths.
- Perimeter pointing and curtain wall ceiling.

Rate of Uses

- Total number of liters required = Joint width (mm) × Joint depth (mm) × Joint length (m) / 1000
- Wastage not considered.

Joint Design

Width-to-depth ratio is important depending on joint movement.

Width : Depth Ratio:

- 6–12 mm joint width → 1:1
- 12–50 mm joint width → 2:1

Method of Application

1. Joint Preparation:

- Joint edges should be sound and free from grease/oil contamination.
- Use closed cell Chemiko Backing Rod as backup material.

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.

Chemiko PU-40

ONE-PART NON-SAG POLYURETHANE SEALANT

1/1/2017



- Fix bond breaker tape to prevent third surface adhesion.
- Apply masking tape for neat finish.

2. Application:

- Chemiko PU Sealant is available in 600 ml sausages and 300 ml cartridges.
- Insert sausage in an application gun and fill joints slightly in excess.

3. Finishing:

- Tool immediately to ensure full adhesion and remove air pockets.

4. Cleaning:

- Clean tools with kerosene or solvent immediately after use.

Precautions & Limitations

- Max joint width: 50 mm
- Minimum depth: 6 mm
- Avoid high temperatures
- Avoid damp/moist substrates and temperatures below 5°C
- Sealant will not adhere to contaminated or bitumen surfaces
- Sealant adhesion must be only on two opposite faces
- Do not seal in hot weather
- Avoid shalitex board as backup material
- Start application only after 30 minutes of priming
- White grade may slightly yellow under UV exposure

Packing

Chemiko PU Sealant: 600 ml sausage

- Colors: White / Grey
- Shelf Life & Storage
- Shelf life: 12 months from date of manufacturing
- Store in cool, dry place
- Health & Safety Precautions
- Wear gloves and goggles
- Avoid damp surfaces and temperatures below 5°C

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.

Chemiko PU-40

ONE-PART NON-SAG POLYURETHANE SEALANT

1/1/2017



TECHNICAL DATA

Properties	Specification / Standard	Results
Appearance	-	Pasty
Color	-	White / Grey
Density at 20°C	-	1.16 ± 0.05
Sagging (ISO 7390)	ISO 7390	None
Application temperature	-	5 to 35°C
Skin formation time at 23°C & 50% HR	-	5 to 10 h
Cure time at 23°C & 50% HR	-	> 2 mm / 24 h (depends on climate and joint size)
Final Shore A Hardness	ISO 868 – 3 sec	Ca 25
Modulus at 100%	ASTM D412	0.3 MPa
Elongation at break	ASTM D412	> 600%
Tensile Strength	ASTM D412	2.6 MPa
Temperature resistance	-	-30 to +80°C
Resistance to dilute acids & bases	-	Average
UV resistance	-	Good
Water & salt spray resistance	-	Excellent
Compatibility with paints	-	Water-based: Yes; Solvent-based: Test first

Standard

- ASTM C-920, Type S, Grade NS, Class 25, Use; NT, T, A, and M
- DIN EN ISO 11600 – Type F – Classification 25 LM

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.