



CHEMIKO GUARD P-100

Two component Pouring Grade UV Resistant Polysulphide Sealant

1/1/2017

DESCRIPTION

Chemiko P-100 is two component, polysulphide polymer based, UV resistant, flexible tear resistant, rubbery, self-leveling, pourable, non-staining sealant, which adheres to most of building materials like cementitious substrates, aluminum, glass, wood, mild steel, etc. It cures at ambient temperature, has excellent recovery characteristics after extended period of compression / elongation with outstanding resistance to most chemicals, weather conditions, aging and shrinkage.

It conforms to BS 5212 : 1990 Part I - Type F & Type FB (Flame and Fuel Resistant), IS 12118 Part 1 - 1987, BS : 4254 and ASTM C 920 and BN EN 14188 - 2 : 2004.

Application

- Joints in concrete roads, bridges, subways, flyovers & airport runway.
- Joints in water retaining structures like water tank, swimming pool including decks, aqua ducts, dams, canals & reservoirs.
- Expansion joints in industrial, commercial or residential buildings.
- Nuclear Power station reactor domes.
- Joints between concrete pipe lines.
- Roof light joints.

Advantages

- Excellent UV resistant.
- Provides uniform, water tight seal.
- Adhesion compatible to most substrate.
- Highly resilient with excellent recovery characteristics and thermal flexibility.
- Prevents cracking by allowing expansion / contraction during atmospheric changes.
- Flexible, tear resistant, rubbery, self-leveling.
- Chemical / flame / fuel resistant.
- After full cure, can withstand in fully submerged condition and suitable for potable water.

Application Methodology

Surface Preparation

- Remove loose gravel, dirt, oil, grease by jet of dry air and clean surface.
- Ensure moisture content is below 5%.
- Use masking tape for sharp edges.

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.

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- Use backup material to avoid third face adhesion.
- Apply primer on vertical faces.

Material Preparation

- Mix entire quantity of base and accelerator thoroughly with slow speed mixer (400 rpm).
- Ensure no entrapped air.

Application of Material

- Ensure depth does not exceed width.
- Use backer rod.
- Prime surface and allow to tack dry 10 minutes.
- Apply mix after 30 minutes.
- Do not use Chemiko PS PG in grooves >50 mm.

Finishing and Cleaning

- Finish joint in concave shape using wooden batten soaked in soap water.
- Remove masking tape within 30 minutes.
- Clean tools with Xylene.

Health & Safety

- Avoid contact with skin / eyes.
- Ensure ventilation.
- Wear protective gear.
- In case of contact, wash with water and seek medical attention if required.

AVAILABLE PACKING: 1kg, 4kg

Storage

- Store in cool dry place away from heat.

Shelf Life

- 12 Months at 5 - 35°C in unopened sealed container.

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Technical Information

Characteristics - Physical	Values
Colour	Grey
Solid Contents, %	97 - 100
Service Temp, °C	- 40 to + 85
Application Temp, °C	5 - 50
Theoretical Coverage, gm / running meter	120 For 6 x 12 mm
Setting Time, 35°C, hrs.	6
Pot Life, 25°C, hrs.	2
Specific Gravity	1.75 ± 0.10
Mixing Ratio	92:8 (by weight)
Full cure, in tropical conditions	Up to 8 days
Characteristics - Technical	Values
Elongation at break, % (ASTM D 412)	400 ± 100
Tensile Strength, kg/cm ² (ASTM D 412)	2
Adhesion bond strength 2.5 cm (cohesive failure) BS 5212 Part 3	18
Shore A hardness (ASTM D 2240)	10 ± 2
Movement Accommodation Factor – Butt Joints	± 25
Movement Accommodation Factor – Lap Joints	± 50

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ISO 9001:2015