



## MAK PU SEAL

One- Part Non-sag Polyurethane Sealant

### Description

MAK PU Sealant 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, none sagging, watertight with excellent adhesion to almost all building construction materials. It conforms the below standards:

ASTM C-920, Type S, Grade NS, Class 25, Use; NT, T, A, and M

DIN EN ISO 11600 – Type F – Classification 25 LM

Meet SNJF Standard (class 25 E)

### Primary Uses:

- ◆ Sealing of expansion and construction joints as well as joints between different construction materials in high-rise buildings, basements etc.
- ◆ Sealing joints in between precast concrete panels
- ◆ Repairing of non-moving concrete Cracks and control widths
- ◆ Sealing Joints in between tiles, bricks, and marble etc.
- ◆ Sealing joints of metal container finishing
- ◆ Perimeter pointing & curtain wall ceiling

### Coverage

Total Number of liters required\* = Joint width (mm.) x Joint depth (mm.) x Joint length (m.) / 1000

### Direction For Use

◆ **Joint Preparation:**◆ Joint edges should be sound and free from grease or oil contaminations. If spelled, it should be rectified properly by using polymer modified mortar or epoxy mortar.

◆ Use a closed cell Mak Backing Rod as a back-up material. Back up material is used to adjust width to depth ratio and falling of sealant while application.

◆ Fix a bond breaker tape over the backup material to prevent third surface adhesion

◆ Fix a masking tape on both sides of joint surface to get neat & clean appearance of joints after application of sealant.

**Application:** MAK PU Sealant is available in 600 ml sausages. Insert the sausage in hand operated application gun. Apply nominal pressure over the trigger of the gun so that sealant starts extruding out of the nozzle & fill the sealant in joints. Apply slightly in excess for tooling & finishing purpose

**Finishing:** Tool the sealant immediately with tooling knife by pressing against the joint to remove air pockets & to ensure 100% contact and adhesion with the surface

### Cleaning

After sealing the joint the tools and equipments should be cleaned immediately with kerosene or any other cleaning solvents

### Packaging

Mak PU Seal is available in 600 ml sausage

## Technical Specifications

Appearance	Pasty
Colour	White / Grey / Black
Skinning Time at 23 degree centigrade & 50 % RH	Ca.70 Minutes
Cure Time at 23 degree centigrade & 50 % RH	3mm 24 Hrs (depending on climate conditions & joint size)
Shore A Hardness	Ca. 40
Sagging	No
Application Temperature	5 - 35 degree centigrade
UV Resistance	Good
Service Temperature	-40 to +80 degree centigrade

## Joint Design

For various reasons, different types of joints are provided with width depth ratios in different proportions. Depending on the horizontal or vertical movements, the cured sealant should retain its original shape after the deformation of expansion/contraction. So width depth ratio is important

Width: Depth Ratio

Joint Width (mm.)  
For 6 to 12 mm. joint width  
For 12 to 35 mm. joint width

Width : Depth Ratio  
Depth shall be 1:1 (equal)  
Depth shall be 2:1 (half)

## Advantages

- ◆ Single Component & Ready to use
- ◆ Movement accommodation - Accommodates continuous and pronounced cyclic movements
- ◆ Excellent adhesion to concrete & most of construction material
- ◆ Excellent Elasticity
- ◆ No sagging & staining
- ◆ Excellent Weathering durability
- ◆ Can be over coated

## Storage

Shelf life is 12 months from the date of manufacturing. It is stored in cool and dry place

### Health and Safety

- ◆ Some people are sensitive to solvents, resins and hardeners and so it is advisable to use hand gloves and goggles
- ◆ Avoid application on damp and moist substrates and at Temperature below 5°C
- ◆ Sealant will not adhere to substrates with contamination and traces of bitumen
- ◆ Do not carry out sealing operations during hot weather conditions

### Disclaimer

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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