

MAX 9020 PU SEALANT

(Single Component Non-Sag Polyurethane Sealant)

DESCRIPTION:

MAX 9020 PU SEALANT is a one-part moisture curing Polyurethane Sealant composed of polyurethane polymer, pigments, fillers & 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. Meets the requirement of ASTM C-920-S, NS, 25 & BS EN ISO—11600: 2003 Type F & G, Class 25 LM standard.

AREA OF APPLICATION:

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

ADVANTAGES:

- Reduces the possibility of applicator error and possible joint failure
- Excellent thixotropic property - non-sag
- Elastic low modulus
- Pitch-free over paintable
- Movement capability 25%
- Bubble-free curing, no weak areas for air bubbles to develop
- Excellent resistance to weathering (DIN 14231)
- Very good adhesion to most construction materials especially concrete without the need of primer
- Permanently elastic over a wide range of temperatures

FEATURES & BENEFITS:

- **Ready to use** - Single pack, it reduces the failure due to heterogeneity while imperfect mixing.
- **Curing** – Cures by absorption of moisture from air, (no external curing is required.) at ambient temperature with humidity.
- **Elasticity** – Elastic & forms a permanent tough rubber seal.
- **Adhesion** - Excellent adhesion to concrete, brick work, painted wood, glass, glazed surfaces, aluminium, stainless steel, steel & plastic like polyester & PVC. benefits variety of application & hermetic sealing.
- **Sag/slump thixotropic**, does not sag or flow down in the joint.
- **Staining** – No staining of cementitious substrates.
- **Weathering durability** – Excellent, may slightly yellow on long exposure to UV light.
- **Movement accommodation** - Accommodates continuous and pronounced cyclic movements. benefits from failure in joints.
- **Biodegradation** - Resistant to bio-degradation, maintains hygiene.

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 very important.

WIDTH: DEPTH RATIO:

JOINT WIDTH (MM)

For 6 to 12 mm joint width

For 12 to 25 mm joint width

WIDTH/DEPTH RATIO

Depth shall be 1:1 (equal)

Depth shall be 2:1 (half)



METHOD OF APPLICATION:

1. SURFACE PREPARATION:

- Joint edges should be sound and free from grease or oil contaminations. If spalled, it should be rectified properly by using polymer mortar or epoxy mortar.
- Use a closed cell polyethylene foam sheet or rod as a back up material. Back up material is used to adjust width to depth ratio and falling of sealant while application. Ex: thermocol sheet can be used as a back up material.
- 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.

2. APPLICATION:

MAX 9020 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.

3. 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.

4. CLEANING:

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

PRECAUTIONS & LIMITATIONS

- Maximum width for application in a joint is 25 mm
- Do not expose the sealant to high temperatures
- Sealant will not adhere to substrates with contamination and traces of bitumen
- Adhesion of the sealant must only be on two opposite faces

- Do not carry out sealing operations during hot weather conditions.
- Use of shalitek board as a back up material should be avoided
- Application to be started only after 30 minutes of priming the substrate

TECHNICAL INFORMATION:

- Appearance : Homogeneous, highly viscous paste
- Colour : Grey / White
- Density (g/cc) : 1.42 to 1.5
- Skinning time, minutes : 15 – 20
- Tack Free Time, Hrs : ASTM C – 920 : 72
- Service temperature range, C : - 30 to + 80
- Slump at 35° Angle : Nil
- Hardness, Shore A : ASTM C – 920 : 20-25
- Staining : ASTM C – 920 : No staining
- Adhesion & Cohesion under cyclic movement, cm2 : ASTM C – 920 : less than 5
- Movement Accommodation Factor : (%) +/- 25
- Modulus at 100% elongation, N/mm² : DIN 53504 : 0.2
- Elongation at break, % : DIN 53504 : 500-600
- Tensile strength : 15 N/mm²

Packing:

600ml

HEALTH & SAFETY:

- Use rubber hand gloves & safety goggles, while using **MAX 9020 PU SEALANT**
- In case of contact with skin, wash with plenty of water.
- Keep out of reach of children

STORAGE & LIFE:

Best before one and half years from the date manufacture when in sealed pack and stored in cool & dry place in unopened condition away from direct sunlight.



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TECHNICAL INFORMATION & SERVICES:

Further information and advice, including practical demonstration are freely available with the Technical Service Department of **SEMITRONE CONCHEM PVT LTD - AHMEDABAD.**

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