



DELTA PU 1

Semi – Flexible Polyurethane Grout



DESCRIPTION

Delta PU 1 is a single-shot semi-flexible hydrophobic polyurethane grout comprises of an MDI based resin and amine based catalyst.

BENEFITS

- ❖ Low viscosity, easy crack penetration
- ❖ Solvent - free
- ❖ High foam volume even with low catalyst use
- ❖ Variable foaming rates
- ❖ Semi-flexible, accommodates small movements

USES

- ❖ Sealing of cracks and associated water leakage in walls, ceilings and floors.
- ❖ Suitable for both slow and fast leaks by adjusting catalyst level.
- ❖ Void filling and grouting.

COLOR

Yellow to amber

APPLICATION

Mix Delta PU 1 Catalyst into Delta PU 1 Resin. Recommended amount is 1% to 5%, typical 1% to 2% based on the amount of resin (200g to 400g of catalyst for a 20kg resin). Use higher levels of catalyst in case of fast water ingress.

Tools – Applied by high pressure injectors through packers installed in affected areas.

Pump grouting material until cracks and voids are filled, leakage stopped and allow setting/foaming of the material.



TECHNICAL AND APPLICATION DATA

| Delta PU 1 Resin | |
|-------------------------|--------------|
| Appearance | Amber liquid |
| Viscosity, 21 °C, mPas | 200 - 250 |
| Specific gravity, 21 °C | 1.14 |

| Delta PU 1 Catalyst | |
|-------------------------|--------------|
| Appearance | Clear liquid |
| Viscosity, 21 °C, mPas | 12 - 20 |
| Specific gravity, 21 °C | 0.96 – 0.98 |

- ❖ Suitable for HDB projects.

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| Mixing Ratio | |
|---|------------------------|
| 50g Delta PU 1 Catalyst to 5 kg Delta PU 1 Resin (approximately 4 capful) | 1% Delta PU 1 Catalyst |
| 100g Delta PU 1 Catalyst to 5 kg Delta PU 1 Resin (approximately 8 capful) | 2% Delta PU 1 Catalyst |
| 250g Delta PU 1 Catalyst to 5 kg Delta PU 1 Resin (half of a 0.5 kg bottle) | 5% Delta PU 1 Catalyst |
| Cream time @ 25 °C by adding 10% water | |
| 1% Delta PU 1 Catalyst | 30 seconds |
| 2% Delta PU 1 Catalyst | 30 seconds |
| 5% Delta PU 1 Catalyst | 23 to 25 seconds |
| Rise time @ 25 °C by adding 10% water | |
| 1% Delta PU 1 Catalyst | 6 to 7 minutes |
| 2% Delta PU 1 Catalyst | 5 to 6 minutes |
| 5% Delta PU 1 Catalyst | 4 to 5 minutes |
| Foaming ratio @ 25 °C by adding 10% water | |
| 1% Delta PU 1 Catalyst | >18 x |
| 2% Delta PU 1 Catalyst | >20 x |
| 5% Delta PU 1 Catalyst | >23 x |

STORAGE CONDITIONS AND SHELF LIFE

Both the Resin and Catalyst should be stored in tightly sealed containers in dry and cool conditions. Never exceed 35 °C. Do not expose the material to direct sunlight or moisture. All components of Delta PU 1 have a shelf life of 12 months in their original packaging.

PACKAGING

Delta PU 1 Resin : 5 kg, 20 kg
Delta PU 1 Catalyst : 0.50 kg

SAFETY

Product contains isocyanates. Do not take internally. Avoid skin exposure. The product may irritate eyes and skin. Ensure adequate ventilation. Always use suitable personal protective equipment. Refer to material safety data sheet before using the product.