

DATASHEET

Class B Resin



Product Description:

Class B resin is a pure acrylic resin specifically formulated for applications requiring an exceptional surface finish, high mechanical strength, and superior durability. Designed to minimize surface defects such as waviness and shrinkage, this resin provides a smooth, glossy, and paint-ready finish. It is widely used in industries where aesthetic quality and structural integrity are critical.



APPLICATION INSTRUCTIONS

- **Mixing:**
Mix the resin and hardener in the ratio specified by the manufacturer (typically 20kg epoxy and 10kg hardener by volume).
- **Application Method:**
Apply the mixed resin by casting
- **Curing Time:**
Allow the epoxy resin to cure according to the manufacturer's instructions. Curing typically takes 24–48 hours at room temperature for full hardness.

Technical Details

- Resin Type : pure acrylic
- Viscosity (cps): 400 - 800 (Depending on formulation)
- Gel Time (Minutes): 8 - 15 (at 25°C with 1% MEKP)
- Tensile Strength (MPa): 60 - 80
- Flexural Strength (MPa): 100 - 150
- Heat Deflection Temp (°C): 80 - 110
- Shrinkage (%) < 1.5%
- Hardness (Barcol): 40 - 50
- Shelf Life: 3 - 6 months (if stored properly)



Uses:

- **Excellent Surface Finish:** Provides a Class B gloss, defect-free surface.
- **Low Shrinkage:** Reduces warping and deformation during curing.
- **Chemical & Weather Resistance:** Offers superior resistance to moisture, UV exposure, and various chemicals.
- **Fast Curing Time:** Improves production efficiency while maintaining excellent quality.
- **Paintable & Coatable:** Easily accepts paint and other coatings for customization.



Health and Safety:

- **Precautions:** Wear gloves and eye protection, ensure good ventilation, and avoid skin and inhalation contact.
- **Storage:** Store in a cool, dry place, away from sunlight and children.



Quality & Durability:

- **Quality Assurance:** Manufactured under strict quality control guidelines to ensure consistency in performance.
- **Durability:** Designed to withstand environmental conditions.
- **Testing & Compliance:** Meets industry standards for composite materials in automotive, marine, and industrial applications.