

# Bondone Clear Cast UV Stable

UV-stable casting epoxy resin — anti-yellowing formulation

## Product Information

|              |                                            |
|--------------|--------------------------------------------|
| Product Name | Bondone Clear Cast UV Stable               |
| Brand        | Bondone (DCM Shriram)                      |
| Type         | Two-component epoxy casting system         |
| Pack Size    | 1.2 kg kit (Resin + Hardener)              |
| Shelf Life   | 2 years, sealed at 2-40°C                  |
| Food Safety  | Certified food safe — EN 713 (fully cured) |

## Key Technical Specifications

| Property                   | Value                              | Test Method            |
|----------------------------|------------------------------------|------------------------|
| Mix Ratio (Resin:Hardener) | 3 : 1 by weight                    | —                      |
| Pot Life @ 25°C            | 280-340 minutes                    | —                      |
| Pot Life @ 35°C            | 180-220 minutes                    | —                      |
| Yellowing Reduction        | ~90% vs standard Clear Cast        | Accelerated UV testing |
| Max Pour Depth per Layer   | 10 mm (multiple layers 24 h apart) | —                      |
| Full Cure @ 25°C           | 24-48 hours (demould after 24 h)   | —                      |
| Max Hardness               | 7 days                             | —                      |
| Coverage                   | ~3-4 sqm per kg at 1 mm thickness  | —                      |
| Appearance (Cured)         | Water-clear, high gloss            | —                      |

## Application Guidelines

| Step           | Description                                                                                            |
|----------------|--------------------------------------------------------------------------------------------------------|
| 1. Preparation | Clean, dry, dust-free surface. Seal porous wood with a thin seal coat of UV Stable resin and let cure. |
| 2. Temperature | If ambient < 20°C, warm bottles in water bath at 30-40°C. Cold resin traps bubbles.                    |
| 3. Mixing      | 3:1 by weight. 100g Resin + 33.3g Hardener. Stir gently 2-3 min. Use digital scale.                    |
| 4. Degas       | Rest 5 min for bubbles to rise. Torch surface lightly after pouring.                                   |
| 5. Pour        | Thin stream from height. Max 10 mm per layer. Deep pours: layers 24 h apart.                           |
| 6. Cure        | 20-35°C, humidity < 65%. Full cure 24-48 h. Post-cure 40-60°C for faster demould.                      |
| 7. Finish      | Sand 400-3000 grit. Buff for high gloss.                                                               |

## UV Stable vs Standard Clear Cast

| Feature              | UV Stable                                 | Standard Clear Cast            |
|----------------------|-------------------------------------------|--------------------------------|
| Yellowing Protection | Excellent (indirect light)                | None - yellows in months       |
| Pot Life @ 25°C      | 280-340 min                               | 300-370 min                    |
| Mix Ratio            | 3:1                                       | 3:1                            |
| Best For             | Near windows, sunrooms, outdoor furniture | Indoor casting, art, jewellery |
| Price / 1.2 kg       | Rs 755                                    | Rs 731                         |

## Notes & Precautions

- Avoid pouring in monsoon — humidity > 65% retards cure and causes blush.
- Not for direct outdoor sun/rain without a marine-grade top coat.
- Store in cool, dry place away from sunlight. Keep sealed.
- Use in well-ventilated area. Wear gloves and safety glasses.
- TDS and MSDS available on request with every order.