

EpoxAcoat® Red

Epox; Epoxide
Smooth-On, Inc

Message:

EpoxAcoat® RED is a thixotropic epoxy gel coat that is widely used for hand laminating/tooling applications. It is a tough and strong surface coat resin that cures at room temperature and offers exceptional abrasion resistance.

EpoxAcoat® RED is easy to use, wets out well over a variety of surfaces and will coat vertical surfaces without sagging. After the epoxy becomes "tacky-hard" at room temperature, fiberglass cloth is laminated behind the surface coat using EpoxAmite® Laminating Epoxy to produce strong, lightweight tools that have excellent dimensional stability and surface finish. Cured surface machines precisely without chipping. Applications include precision tooling, master and pattern making, core boxes and fixtures.

| General Information | | | |
|-----------------------------------|----------------------------|-------|-------------|
| Features | Good Abrasion Resistance | | |
| | Good Dimensional Stability | | |
| | Good Strength | | |
| | Good Surface Finish | | |
| | Good Toughness | | |
| | Thixotropic | | |
| Uses | Coating Applications | | |
| | Laminates | | |
| | Patterns | | |
| | Tooling | | |
| Appearance | Red | | |
| Forms | Gel | | |
| Processing Method | Coating | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.49 | g/cm³ | ASTM D1475 |
| Specific Volume | 0.668 | cm³/g | ASTM D792 |
| Tack Free Time - Thin Film | 4.0 | hr | |
| Work Time - Thin Film | 40.0 | min | |
| | 100A:15B by weight | | |
| Mixing Ratio | 5A:1B by volume | | |
| Tack-up Time - Thin Film - Recoat | 1.0 | hr | |
| Molding Shrinkage - Flow | 0.015 | % | ASTM D2566 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 85 | | ASTM D2240 |
| Barcol Hardness | 87 | | ASTM D2240 |

| Mechanical | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Tensile Strength ¹ (Break, 23°C) | 179 | MPa | ASTM D638 |
| Flexural Strength ² (23°C) | 207 | MPa | ASTM D790 |
| Compressive Strength ³ (23°C) | 165 | MPa | ASTM D695 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 56.1 | °C | ASTM D648 |
| Thermoset | Nominal Value | Unit | Test Method |
| Pot Life | 20 | min | ASTM D2471 |
| Demold Time ⁴ | 960 | min | |
| NOTE | | | |

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|----|---|
| 1. | 6 ply / 10 oz. laminate after 7 days at 73° F. / 23° C. |
| 2. | 6 ply / 10 oz. laminate after 7 days at 73° F. / 23° C. |
| 3. | 6 ply / 10 oz. laminate after 7 days at 73° F. / 23° C. |
| 4. | Cure Time |

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