

LSR Topcoat

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Description

LSR Top Coat is a two-component low friction, protective translucent matte coating for consideration in applications such as respiratory face masks or orthopaedic devices, industrial seals or keypads. This material can be applied by spraying, brushing or dipping on surfaces that are dust and grease free but otherwise untreated. The LSR Top Coat can be cured very quickly at high temperatures (100°C to 180°C) in a ventilated hot-air oven.

Key Features and Benefits

- Provides translucent matte finish coating
- Good adhesion to Momentive's Silicones elastomer substrates
- Reduces the surface coefficient of friction (COF) of silicone elastomer substrates
- Reduces surface tackiness of RTV substrates
- Reduces surface dust pick up
- VOC (Volatile Organic Compound) free
- Biocompatible (USP Class VI requirements)
- Can be colored by using silicone compatible pigments
- Elastic properties may reduce the risk of microcracking on elastomeric surfaces under mechanical stress

Typical Physical Properties

| Properties | Typical Data |
|------------|--------------|
|------------|--------------|

| | | | |
|---|---|----------------------------------|--------|
| Color | | Translucent matte finish coating | |
| Brookfield Viscosity 1 cp | | ~1600 cP-sec. | |
| Specific Gravity @ 25°C, gms / cc | | 1.03 | |
| Pot Life of 1:1 Ratio Mixture @ 25°C ^[1] | | ~4-6 hours | |
| Refractive Index | | 1.41 | |
| | | | |
| Flow-cup Viscosity | DIN EN ISO 2431 at 20°C | 30-40 sec. | ca. 33 |
| | | | |
| Abrasion Resistance | Norman Tool Tester. 175 g. paper, continuous mode, at 80 μ dry film thickness | cycles | 80-100 |
| | | | |

[1] The pot life of the mixture can be increased to 2-3 days if the mixture is kept well below room temperature.

Apply the coating immediately after mixing to avoid viscosity build up and ingredient settlement over time.

The pot life of the mixture of the two components {mixing ratio 1:1} at 20°C is three days.

Increased temperature reduces the pot life.

Potential Applications

Typical applications for consideration are cell phone covers, consumer and healthcare grips and handles, connector seals, automotive interior applications, and any other area where the bulk properties of silicone are desired coupled with a surface exhibiting a lower coefficient of friction.

Patent Status

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

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