

SILICONES

and more

LSR Top Coat

LSR Top Coat HE is a two-component translucent matt coating with high elongation for spraying technology. It has been developed as an abrasion resistant coating for printed silicone elastomer substrates based on LSR. Surfaces to be coated must be free from dust and grease but do not require further pre-treatment. LSR Top Coat HE will vulcanise quickly by heat treatment in a ventilated hot-air oven.

LSR Top Coat, offered by Momentive Performance Materials, is a two-component, low-friction, protective, translucent matte coating for use in applications such as respiratory masks or orthopedic devices, industrial seals or keyboards.

This silicone coating is applied to cured silicone to mattify and reduce friction.

This food-safe and skin-friendly silicone coating adheres smoothly to addition silicones (HTV, LSR and RTV) and has a very long processing time. The curing time at elevated temperature is short.

This silicone coating has good stretchability. This prevents too rapid cracking with a flexible substrate.

This coating is easy to color in, making it an ideal base material for permanent painting of silicone.

Key Features and Benefits

LSR Top Coat HE is distinguished by the following properties:

- very good adhesion to silicone substrates
- high elongation
- high reactivity
- neutral odour and taste
- excellent stability and flexibility at low temperatures
- suitable for compliance with the food contact regulations FDA 21 CFR 177.2600 and the BfR section XV recommendations *

* The ingredients used to formulate this product are compositionally compliant with 21 CFR 177.2600, Rubber articles intended for repeated use and the BfR recommendation XV "Silicone". It is the responsibility of the user to determine that the finished product complies with the provisions of 21 CFR 177.2600 and BfR recommendation XV under their specific manufacturing procedures. See 21 CFR 177.2600 and BfR recommendation for details of extractive limitations and other requirements.

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Typical Physical Properties

Colour: colourless matt

Viscosity, mixed 1:1 at 20°C: 400 mPas. (DIN 53 019)

Abrasion resistance: 100 cycles (Norman Tool Tester, 175 g, paper, continuous mode, at 50 µm dry film thickness)

The pot-life of the two-component mixture (ratio 1:1) at 20° C is three days. Increased temperature reduces the pot-life.

Potential Applications

Because of the outstanding properties LSR Top Coat HE is suitable for LSR, heat cured silicone rubbers as well as room temperature vulcanisates

Processing Recommendations

Agitate LSR Top Coat HE well before use!

The mixture, consisting of the two components in ratio 1:1, should be mixed approx. 5 minutes by means of suitable mixer with moderate shear rate. For cleaning use non polar solvent. If necessary a continuous mixing device should be provided in the storage container of the mixed Top Coat. The Top Coat should be crosslinked immediately after spraying by heat treatment at 100 - 180 °C in a ventilated hot-air oven. There should be sufficient admission of fresh air, so that no surface disturbance arises.

Storage

LSR Top Coat HE has a warranty period of 6 months from date of manufacture, if stored in the original sealed boxes and stored at dry conditions at room temperature (max. 27 deg. C, < 60 % rel. humidity).

The shelf-life will be indicated by the "use before date" on the associated Certificate of Analysis

Security requirements



H-Code Hazard Statements

H412: Harmful to aquatic life with long lasting effects.



P-Code Precautionary Statements

P273: Avoid release to the environment.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.