MOMENTIVE™

Technical Data Sheet

Silopren* LSR TOPCOAT HE

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Description

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.

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 [1)]

1) 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.

Typical Physical Properties

Typical properties of the LSR Top Coat HE:			
Colour			colourless matt
Viscosity, mixed 1:1	DIN 53 019 at 20° C	mPas.	400
Abrasion resistance	Norman Tool Tester, 175 g, paper, continuous mode, at 50 µm dry film thickness	cycles	100

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.

Containers

LSR Top Coat HE is available in 5 kg and 25 kg metal cans.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and 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.

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at www.momentive.com or, upon request, from any Momentive Performance Materials (MPM) representative. **For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center**. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

From automotive to healthcare, from electronics to construction, products from Momentive Performance Materials Inc. are practically everywhere you look. We are a global leader in silicones and advanced materials with a 70+ year heritage of innovation and being first to market – with performance applications that improve everyday life. By knowing our customers’ needs and creating custom technology platforms for them, we provide science based solutions to help customers increase performance, solve product development issues and engineer better manufacturing processes.

Contact Information

For product prices, availability, or order placement, contact our customer service by visiting www.momentive.com/Contacts

For literature and technical assistance, visit our website at: www.momentive.com