TECHNICAL DATA SHEET

QLE 1102
Addition Cure Specialty Silicone Coating

Description

This elastomer is designed for fabric, textile or cloth coating applications where a tough coating and excellent adhesion is needed.

Key Features

- Fast cure at elevated temperatures
- Low linear shrinkage
- Transparent, ideal for pigmentation
- Low viscosity and good inhibition resistance

Use and Cure Information

Important

The "A" part of this elastomer contains the platinum catalyst; great care should be taken when using automated dispensing equipment to not cross-contaminate systems.

Mixing

Both the "A" and "B" parts should be well stirred to ensure the material is uniform. The elastomers should be mixed by weight. Once they are mixed, the curing process begins. The gel time of the mixed material is listed under the typical properties. Fast curing gels should be dispensed utilizing automated mix and dispensing equipment. In order to achieve optimum performance, the same "A" and "B" side lot number should be used.

De-Aeration

Air trapped during mixing should be removed to eliminate voids in the cured product. Vacuum de-airing may be necessary to completely remove all entrapped air bubbles. To ensure proper de-airing, subject the mixed material to 29 inches mercury.

Storage and Self-life

This product is best when used within 24 months for the date of manufacture; see product label and/or the CoA for the specific "use by date". Product should be stored in its original. unopened container in an environment that does niot exceed 38°C (100°F). Storage beyond the date specified on the label does not neccessarily mean that the product is no longer usable. In this case, the properties required for the intended use should be checked for quality assurance reasons.

Property	Test Method	Value
Uncured Product		
Color A		**Transparent and colorless**
Color B		**Transparent and colorless**
Cure Profile		**10 mins at 150°C, 30 mins at 100°C**
Cure Type		**Addition**
Density A	BS ISO 2781	**1.02**
Density B	BS ISO 2781	**1.02**
Mix Ratio By Weight		**1:1**
Rheology		**Liquid, Newtonian**
Viscosity A	Brookfield	**2,000 cP**
Viscosity B	Brookfield	**2,000 cP**
Cured Product		
Density	BS ISO 2781	**1.02 g/cm3**
Elongation at Break	ISO 37	**125 %**
Hardness Shore A	ASTM D 2240-95	**45**
Max Working Temp		**200 °C / 392 °F**
Min Working Temp		**-55 °C / -67 °F**
Refractive Index		**1.4**
Tensile Strength	ISO 37	**5.52 N/mm2 / 800 psi**
Thermal Conductivity		**0.18 W/mK**
Storage		
Max Storage Temperature		**38 °C / 100 °F**
Shelf Life		**12 mths**

Health & Safety

Please observe our safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

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