TECHNICAL DATA SHEET

QSil Smooth Coat
Heat Cure, Top Matte Silicone Coating

Description

This is a two-component, low friction, translucent, matte finish coating. This material can be applied via spraying, brushing, or dip-coating on surfaces that are untreated or free of dust and grease. This material is excellent for orthopedic devices, special effects or where a smooth finish is needed.

Key Features

- Heat cure required
- Reduces the coefficient of friction (CoF)
- Pigmentable
- Can be applied by spraying, brushing, or dipping

Key Applications

- Prosthetics
- Special effects

Application

QSil Smooth Coat is designed for use where a low friction top matte coating is needed and is compatible with addition cure silicone elastomers. Heat curing is necessary to achieve full product physical properties.

CURE PROFILE*	
Temperature	**Time**
150°C	10 minutes
90°C	30 minutes

Property	Test Method	Value
Uncured Product		
Color		**Translucent**
Color A		**Clear to translucent**
Color B		**Translucent**
Cure Type		**Addition**
Gel Time at 25°C/77°F		**3 days**
Mix Ratio By Weight		**1:1**
Specific Gravity A		**0.97**
Specific Gravity B		**1.04**
Viscosity A	Brookfield	**21 cP**
Viscosity B	Brookfield	**265 cP**
Viscosity Mixed	Brookfield	**140 cP**
Cured Product		
Max Working Temp		**150 °C / 302 °F**
Min Working Temp		**-55 °C / -67 °F**
Storage		
Max Storage Temperature		**25 °C / 77 °F**
Shelf Life		**24 mths**

* Material is not designed to cure at room temperature. Material may not reach full physical properties if cured below the minimum recommended cure temperature. These are recommended cure times only with actual cure times and temperatures dependent on the quantity of material being used and the shape of the part being made.

Use and Cure Information

MIXING

Both A and B should be thoroughly mixed prior to use. These should be thoroughly mixed using a 1:1 ratio by weight or by volume. Once the components are mixed the curing process begins. 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 of mercury.

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