

TECHNICAL DATA SHEET

QSiI 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

QSiI 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

* 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.

Revision Date 01 Mar 2022
Revision No 8
Download Date 23 Mar 2024

Property

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

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet. CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time. The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany
Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com