

Technical Data Sheet

QSiil 7720 Addition Cure Potting Material

PRODUCT DESCRIPTION

QSiil 7720 is a two-component 100% silicone solids elastomer designed for roller applications. The system offers a low durometer material with excellent physical properties as well as a low compression set, when post-cured.

KEY FEATURES

- 100% solids, no solvents
- Excellent physical properties
- Low compression set
- Excellent adhesion when used with a primer

TYPICAL PROPERTIES

UNCATALYZED		
TEST	QSiil 7720 A	QSiil 7720 B
Appearance	Red	Beige
Viscosity	65,000 cps	65,000 cps
Specific Gravity	1.24	1.24

CATALYZED	
MIX RATIO 1:1	
TEST	RESULT
Gel Time*	> 24 hours

*Gel time is defined as the time required for the material to become a solid or semi-solid. Additionally, the material was catalyzed and placed in a vacuum chamber for 10H with no gelation.

CURED PROPERTIES	
15 Minutes at 150 °C	
TEST	RESULT
Durometer	20, Shore A
Tensile	500 psi
Elongation	350%
Tear B	80 ppi
Compression Set **	8.5%
Durometer **	22

** Cured 1H at 400 °F and post cured 4H at 400 °F

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ADDITIONAL PROPERTIES	
Thermal Conductivity	~ 0.35 W/m-K
Useful Temperature Range	-55 °C – 204 °C

CURE PROPERTIES	
NOTE: MATERIAL MUST BE HEAT CURED*	
Cure Temperature, °C	Cure Time, minutes
100 °C	20 minutes
125 °C	10 minutes
150 °C	7 minutes

*This is only a guide. The volume of material being cured, and the heat source can/will affect the cure time/temperature relationship. Post curing is also required to achieve good compression set results.

MIXING

Combine equal parts of QSil 7720 A and QSil 7720 B by weight into a clean, compatible container and mix by hand or with mixing equipment until a uniform consistency is observed. The material should have a uniform color with no visible striations. Use caution when mixing to minimize air entrapment.

DE-AERATION

Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process, the material will expand, and intermittent evacuation may be required. Typically, after releasing the vacuum 2-3 times, the mass will collapse on itself at which time the vacuum should be left on for an additional 2-4 minutes.

STORAGE AND SHELF LIFE

This product is best when used within 24 months from date of manufacture. See product label and/or CoA for specific "Use By Date".

Product should be stored in its original, unopened container in an environment that does not exceed 38 °C (100 °F).

Storage beyond the date specified on the label does not necessarily 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.

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DISCLAIMER

The technical data listed is provided for reference only and is not intended as product specifications. CHT USA's team accepts opportunities to either modify specifications in a current product or custom formulate a new one to meet your requirements. For sales and technical assistance, please contact us at: **(804) 271-9010** or **1-800-852-3147**.

Please be sure to visit our website daily for our complete product portfolio, new product introductions and more:

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