TECHNICAL DATA SHEET



QSil 940 Condensation cure for potting applications

 Description This is a special purpose, two-component, condensation cure, siloxane elastomer that exhibits excellent release properties unless a primer is used, which results in excellent adhesion. The material can also be used for applications that have wide temperature range requirements. The two applicable catalysts are 0.5% DBT by weight and 10% Deep Section Catalyst by weight which gives a work life of approximately 45 minutes and a tack free time of two hours. The 0.5% catalyst level can be increased or decreased to obtain desired cure speed. Cure speed can be accelerated by adding DBT catalyst in increments of 0.1%. Key Features Excellent release properties unless a primer is used Variable cure speed 			Property Uncured Product Cure Profile Cure Type Gel Time at 25°C/77°F Mix Ratio By Weight Rheology Specific Gravity Viscosity Cured Product 24 hours at 25°C Color	Test Method Brookfield	Value 24 hrs at 25°C Condensation 45 minutes 100:0.5 or 10:1 Liquid 1.20 12,000 cP White 170 %
Application			Elongation at Break Hardness Shore A	ASTM D 2240-95	
Potting			Max Working Temp		204 °C / 399 °F
Use and Cure Information			Min Working Temp		-115 °C / -175 °F
CATALYSTS			Tear Resistance (N/mm)	BS ISO 34-1	3.47 N/mm / 20 ppi
TEST	DBT Catalyst	QSil Deep Section Catalyst	Tensile Strength	ISO 37	1.31 N/mm2 / 190 psi
Appearance	Clear/light yellow	Beige	StorageMax Storage Temperature4.4 °C / 40 °FShelf Life12 mths		
Viscosity	N/A	6,500 cps			
Specific Gravity	1.04	1.47			

MIXING

If using QSil Deep Section Catalyst as the curing agent, it should be thoroughly mixed prior to use. The base should be catalyzed by weight with the appropriate amount of curing agent. A concentration of 0.5% DBT catalyst or 10% Deep Section Catalyst will provide a gel time approximately 45 minutes and a tack free time of 2 hours. Cure can be accelerated by adding DBT catalyst in increments of 0.1%

Material should be mixed in a clean, compatible metal or plastic container. The volume of the container should be 4 - 5 times the volume of the material to be catalyzed. Thoroughly mix using clean tools, scraping the bottom and the side of the container to produce a homogeneous mixture. CAUTION: Avoid prolonged mixing with power tools as excess heat may build up and shorten the expected work life of the material. **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. When using this material for potting, a de-aeration step may be necessary after pouring to avoid capturing air in complex assemblies.

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