



## Technical Data Sheet

### QSi 940

*Quantum Silicones' 40 Durometer Condensation Cure  
for Potting Applications*

#### **Product Description**

QSi 940 is a special purpose, 2-part room temperature condensation cure siloxane elastomer. The material is supplied as base and can be used with 2 different catalysts. This material can be catalyzed with 0.5% DBT catalyst or 10% Deep Section Catalyst which gives a work-life of approximately 45 minutes and a tack-free time of 2 hours. The cure can be modified by changing the amount of catalyst added to the base. To extend the work-life, adding as little as 0.1% of DBT Catalyst can be done without changing the final properties.

In addition, QSi 940 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 as it has a use temperature range of -115C to 200C.

#### **Typical Properties**

UNCATALYZED PROPERTIES		
Color Base component	White	
Viscosity Base component	12,000cps	
Specific Gravity Base component	1.20	
Rheology	Flowable	
CATALYST	DBT Catalyst	Deep Section Catalyst
Catalyst Color	Clear/Light yellow	Beige
Mix Ratio	100:0.5 by weight	10:1 by weight

Catalyzed Properties	
Work Time	45
Tack Free Time, hr	2
24 hr RT Sheet Physicals	
Hardness	40
Tensile, psi	189
Elongation, %	170
Tear B, ppi	20
Useful Temperature Range	-115 to 200°C

## **Instructions for Use**

### **Mixing**

Select a mixing container 4-5 times larger than the volume of QSil 940 silicone rubber compound to be used. Weigh out the QSil 940 base compound and add the appropriate amount of curing agent. 0.5% DBT Catalyst or 10% Deep Section Catalyst, **by weight**, will provide a work-life of approximately 45 minutes and a tack-free time of 2 hours. With clean tools, thoroughly mix the QSil 940 base compound and the curing agent, scraping the sides and bottom of the container carefully to produce a homogeneous mixture. CAUTION: Avoid prolonged mixing with power tools as excess heat may build up and shorten the expected pot-life of the material.

### **De-aeration**

Air trapped during the mixing should be removed to eliminate voids in the cured product. Degassing is usually complete about two minutes after frothing ceases. When using the QSil 940 for potting, a deaeration step may be necessary after pouring to avoid capturing air in complex assemblies.

### **Storage and Shelf Life**

QSil 940 should be stored in the original unopened container at less 4C (40F). It will remain useful for a period of 12 months if stored under those conditions. QSil 40 will have a useful shelf life of 3 months when stored at less than 27C (80F).

### **Not for Product Specification**

The technical data listed herein is provided as a reference only and **is not** intended as sales specifications. For sales and technical assistance or for product recommendations, please call 1-800-852-3147.

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