

**INDUSTRY
SOLUTIONS.**

**Material
Solutions.**

CHT

**SMART CHEMISTRY
WITH CHARACTER.**



chemical-concepts.com

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SPECIALTY PRODUCT ENHANCERS

FOR ADDITION AND CONDENSATION CURE SILICONES

SPECIALTY PRODUCT ENHANCERS SERIES

CHT offers a series of specialty product enhancers for both addition cure (platinum) and condensation (tin) cure silicones. Because application processes all differ, these specialty products can be used to enhance physical properties as well as alter certain specifications or cure profiles of your silicone.

CHT’s team is available to consult with you on your unique application. Finding the right product for your application is not limited to our portfolio. Our expert technologists accept opportunities to either modify specifications in a current product or custom formulate a new one to meet your project’s exact requirements.

CHT’s team is focused on building relationships and carefully listening to your questions, requests and feedback. With this approach, our team is then prepared to provide you with optimal silicone solutions that ultimately improve productivity and enhance performance.

SPECIALTY CATALYSTS

CHT’s series of specialty catalysts are available to increase the cure speed.

For Condensation (Tin) Cure Silicones

- ▶ **QSiL DBT:** Can be added to standard catalysts to increase cure speed. QSiL DBT can also be the sole catalyst for QSiL 40, QSiL 58, QSiL 60, QSiL 940 and QSiL 960 from CHT’s Potting and Encapsulating series.
- ▶ **QSiL STO:** Can be added to standard catalysts to increase cure speed. QSiL STO can also be the sole catalyst for QSiL 40, QSiL 58, QSiL 60, QSiL 940 and QSiL 960 from CHT’s Potting and Encapsulating series. QSiL STO contains a high concentration of active catalyst compared to QSiL DBT.
- ▶ **QSiL Deep Section Cat:** Convenient 10:1 ratio for use with QSiL 40, QSiL 58, QSiL 60, QSiL 940, and QSiL 960 from CHT’s Potting and Encapsulating series. Ideal catalyst for deep section potting to obtain an even cure throughout.



POT LIFE EXTENDERS

CHT’s pot life extenders allow more time if needed to pour and fill in large and/or complex molds.

For Addition (Platinum) Cure Silicones

- ▶ **QSiL PLE:** Increases the work life of most addition cure silicones, but will extend the final cure time. Due to mix ratio sensitivity, QSiL PLE is not recommended for use with QSiL 226, QM 230, QM 230 Clear, QM 230F, QM 237, QM 245, QM 245 Clear, QM 255 and Stretch FX from CHT’s moldmaking series.

SURFACE COATING

CHT’s surface coating lowers the surface tension to the area it is applied.

For Addition (Platinum) Cure Silicones

- ▶ **QSiL Smooth Coat:** A two-part, translucent matte finish coating to reduce the coefficient of friction (CoF). QSiL Smooth Coat can be sprayed, brushed or dip-coated onto untreated surfaces free of dust and grease.

Do you need technical support?

Please contact us for additional technical information, product pricing, and packaging options.

ACCELERATORS

CHT’s accelerators can be used to obtain a faster cure speed in addition (platinum) cure silicones.

For Addition (Platinum) Cure Silicones

- ▶ **QM PT Accelerator:** Decreases demold time and improves inhibition resistance when added to addition cure silicone chemistries.

PRIMERS

CHT’s selection of general purpose primers are used to either obtain or enhance chemical adhesion to substrates including glass, aluminum, stainless steel and other silicones.

For Both Addition (Platinum) Cure and Condensation (Tin) Cure Silicones

- ▶ **QSiL Primer #3:** A generic, low cost primer, tinted blue for ease of visual inspection.
- ▶ **QSiL Primer #3 Clear:** A generic, low cost primer.
- ▶ **QSiL Primer #3 UV:** Contains a UV tracer for ease of visual inspection under UV lighting.
- ▶ **QSiL Primer #5:** A standard primer designed for use with optically clear silicone grades.
- ▶ **QSiL Primer #6:** A standard primer designed for use with optically clear silicone grades where a very thin application coat is needed.
- ▶ **QSiL Primer #7 & QSiL Primer #8:** Both adhere to generally challenging substrates and provide a complementary interface for addition cure silicones.



Flowable Silicone vs. Thixotropic Silicone containing a Thixotropic Additive: For a more thorough and easy application when molding upright figures and surfaces, using a thixotropic additive creates a brushable silicone. This non-slump consistency helps users conserve silicone by creating a glove type mold verses the volume of silicone needed to fill a box mold.

ADDITIVES

Certain additives by CHT will give most silicones thixotropic properties, which is ideal when molding vertical surfaces. CHT also offers additives to obtain a smooth, matte-like finish on the exposed surface of the cured silicone. Further additives are available to lower silicones’ viscosity and durometer.

For Addition (Platinum) Cure Silicones

- ▶ **Thixo Agent AC:** A rheology modifier to impart thixotropic characteristics.

For Condensation (Tin) Cure Silicones

- ▶ **QM Thixo Agent:** A rheology modifier to impart thixotropic characteristics.

For Both Addition (Platinum) Cure and Condensation (Tin) Cure Silicones

- ▶ **QM Diluent 50:** A 50 cps viscosity polydimethylsiloxane fluid to lower viscosity and durometer.
- ▶ **QM Diluent 100:** A 100 cps viscosity polydimethylsiloxane fluid to lower viscosity and durometer.
- ▶ **QM Diluent 1000:** A 1000 cps viscosity polydimethylsiloxane fluid to lower viscosity and durometer.
- ▶ **QSiL Matting Agent:** Results in a matte surface.

QUALITY | SERVICE | INNOVATION

WE TAKE PRIDE IN SERVING YOU

- ▶ Take advantage of consulting one on one with our sales and technology team.
- ▶ CHT demonstrates a distinctive flexibility, whether it's modifying existing product specifications or developing a new product specifically designed for your unique application.
- ▶ Our worldwide distributor network provides local inventory, which means reduced transit times and lower shipping costs for you.
- ▶ Rely on our prompt, product development time.
- ▶ Our team welcomes your feedback because we are always striving to make innovative improvements.

CHT is committed to providing you with superior service and the highest quality silicone products available. Our certification to the ISO 9001 standard ensures that we are always working towards continual improvement in every way.

We also have a stringent product testing protocol that uses ASTM standard test methods. Based on your specifications, products must meet certain criteria throughout production and prior to its release. A Certificate of Analysis will accompany every shipment you receive.



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To view CHT's complete product portfolio or to request product samples, please visit www.cht.com/us02.en

CALL US TOLL-FREE TODAY

Phone: 1-800-852-3147

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