Thixo Agent AC
Thixotropic Additive for Addition Cure Moldmaking

PRODUCT DESCRIPTION
Thixo Agent AC is an additive for Quantum Silicones’ addition cure, silicone elastomers that are silica filled. When used at 0.5 % level this additive creates excellent thixotropic properties. Thixo Agent AC, when used with silica filled, platinum cured, silicone elastomers will cause the material to exhibit non-slump behavior at a thickness of ~ 0.5”. This additive will not change the cured properties of the addition cure material. The cured rubber has outstanding mechanical properties and good shelf-life stability.

KEY FEATURES
- Non-slump to ~ 0.5”
- Does not affect cure times
- Can vary thixotropy as needed

For use with silica filled, addition cure silicone elastomers

MAIN APPLICATIONS
- Spray applications
- Glob-top
- Glove molding
- Lay-up molding

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNCATALYZED</th>
<th>Thixo Agent AC</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous Liquid</td>
<td>Viscous Liquid</td>
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<tr>
<td>Specific gravity</td>
<td>1.00</td>
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<tr>
<td>Viscosity</td>
<td>500 cps</td>
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Recommended mix ratio ~ 0.5%.

CURED PROPERTIES

See individual data sheet addition cure products.
CURE CHARACTERISTICS
Thixo Agent AC will not affect the cure rate of the addition cure material is used with. The curing process begins as soon as the catalyst is mixed with the base. The material will cure as described in the data above under normal temperature (25°C) and humidity conditions (50% RH). Because this system is sensitive to heat and humidity, a change in cure speed may be observed if one or both of these variables are altered. A large difference in temperature (+/- 5°C) or humidity (>60% - 70%) may alter the cure profile of the material.

MIXING
QSi recommends that the catalyzed material be tested on a small area of the mold prior to use.

Thixo Agent AC should be added at 0.5 % by weight to the material to be modified. Material should be mixed in a clean, compatible metal or plastic container. The volume of the container should be 3 - 4 times the volume of the material to be mixed. This allows for expansion of the siloxane material as it de-aeration.

Mix thoroughly by hand or with mixing equipment while minimizing air entrapment until a homogeneous mixture is obtained. This will occur when the material takes on a uniform color with no visible striations. The material should stand for 2 - 3 minutes for the effect of the thixo agent to be realized.

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
If the QM Thixo Agent AC is stored in its original unopened container, in an environment that does not exceed 38°C (100°F) then QSi will warranty the thixo agent for a period of 12 months from the date of shipment.
DISCLAIMER
The technical data listed is provided for reference only and is not intended as product specifications. QSi has the capability to customize products as requested. For sales and technical assistance please contact customer service 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! www.quantumsilicones.com

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