

Thixo Agent AC Thixotropic Additive for Addition Cure Moldmaking

Description

This is an additive for addition cure, silicone elastomers that are silica filled. Used at 0.5 % level, this additive creates excellent thixotropic properties. When used with silica filled, platinum cured silicone elastomers, it 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

Application

Spray applications, glob-top, glove molding, lay-up molding

Use and Cure Information

Recommended mix ratio ~ 0.5%.

CURED PROPERTIES

See individual technical data sheets of the addition cure products.

CURE CHARACTERISTICS

This product will not affect the cure rate of the addition cure material it 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

It is recommended that the catalyzed material be tested on a small area of the mold prior to use.

This product 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.

Health & Safety

Safety Data Sheet available on request.

| | |
|---------------|-------------|
| Revision Date | 14 Oct 2021 |
| Revision No | 4 |
| Download Date | 18 May 2024 |

Property

Uncured Product

| | |
|---------------------|----------|
| Cure Type | Addition |
| Mix Ratio By Weight | ~0.5% |
| Rheology | Liquid |
| Specific Gravity | 1.00 |
| Viscosity | 500 cP |

Test Method

Brookfield

Value

Storage

| | |
|-------------------------|----------------|
| Max Storage Temperature | 38 °C / 100 °F |
| Shelf Life | 24 mths |

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet. CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time. The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany
Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com