

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.

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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

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