

QMCat 100 Specific Condensation Cure Catalyst for QM 100

Description	Property	Test Method	Value
<p>This is the catalyst for a two-component, room temperature, condensation cure, silicone material. The cured rubber is a crystal-clear material designed specifically for the special effects market. The materials' clarity allows for its use as fake ice, fake glass or any application where clarity is required.</p> <p>Key Features</p> <ul style="list-style-type: none"> • Low viscosity • Clarity • Fast demold time • Clear, pigmentable <p>Key Applications</p> <ul style="list-style-type: none"> • Special effects • Fake glass • Fake ice • Applications where pigmentation is required 	Uncured Product		
	Appearance		Liquid
	Color		Clear
	Cure Type		Condensation
	De-mould Time / Full Cure at 23°C/73°F		4 to 6 hrs
	Gel Time at 25°C/77°F		>35
	Mix Ratio By Weight		10 to 1
	Specific Gravity		0.92
	Viscosity	Brookfield	20 cP
	Storage		
Use and Cure Information	Max Storage Temperature		38 °C / 100 °F
	Shelf Life		12 mths

CURE CHARACTERISTICS

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. In addition, if the product is to be used with aggressive resins such as high styrene polyester resins, it is recommended that the rubber be allowed to cure for 48 hours.

MIXING

The catalyst should be thoroughly mixed prior to catalyzation of the base.

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

The base should be thoroughly mixed with the catalyst of choice using a 10:1 ratio (base:catalyst) by weight. Shake the catalyst well before use. 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 during 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. Machine mixing is recommended for best results.

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

Please observe our safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

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