

## VFI®-7001 SILICONE CATALYST

VFI-7001 Silicone Catalyst is a tin-based catalyst system that is specifically made to work only in conjunction with the VFI-7200 Ablative Silicone Series to produce a Catalyzed 7200 Series. The catalyst is used as a 99:1 (silicone to catalyst) ratio while spraying to produce accelerated cure times that are independent of ambient moisture levels. Once the Catalyzed 7200 Series is created, the material will harden within 2 hours at 70°F.

- Ablative properties protect the substrate from heat and flame
- High build allows for fewer coats to obtain desired final thickness
- Able to accept light foot traffic in 2 hours at 70°F
- Protects multiple surfaces, including masonry, concrete, and metal
- Unique two-component system that produces results 5 times faster than uncatalyzed VFI-7200

### PHYSICAL PROPERTIES (CATALYZED 7200)

	TEST RESULTS
Tensile Strength (psi)	346 psi
Elongation (%)	164%
Tear Strength	19 pli
Permeance	8.8 perm

### LIQUID PROPERTIES

	TEST RESULTS
Solids by Weight	38.2%
Solids by Volume	37%
Liquid Density	8.5 lbs/gal
Specific Gravity	1.02 g/mL
Flash Point	>212°F
Viscosity	200 cps
Tack Free Time (Catalyzed 7200)	1 hour @ 70°F
Cure Time (Catalyzed 7200)	<2 hours @ 70°F
Recoat Time (Catalyzed 7200)	2-48 hours @ 70°F
VOC	<25 g/L

## MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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## APPLICATION REQUIREMENTS

The Catalyzed 7200 Series is a moisture-cure silicone that must be sprayed out of 99:1 ratio spray equipment. There is no limit to how thick it can be applied, but it will start to sag at greater than 100 mils in a single pass on vertical surfaces. The ambient and surface temperatures must be greater than 40°F during application, and the cure speed will increase at higher temperatures.

Ensure that the material temperature is at least 60°F before application. Do not apply if rain and other moisture contaminants are present. If coating at 100 mils, allow the coating to cure for a minimum of 1 hour before applying additional coats.

## STORAGE/SHELF LIFE

Store between 60°F - 90°F in a clean, dry building. The shelf life of unopened containers is 6 months after the date of manufacture.

## MIXING

Check for separation and mix until uniform before daily use.

## SURFACE PREPARATION

When using the Catalyzed 7200 Series, the surface should be clean and dry to ensure proper adhesion. When concerned about optimal adhesion, VFI-#11 9:1 Epoxy Primer is recommended over concrete, masonry, and metal. If existing silicone remains from a previous application, do not use a primer because it will negatively affect adhesion.

## EQUIPMENT

To produce an accelerated cure when applying the Catalyzed 7200 Series, VFI recommends using a pump machine known as the BSI Rapid Ablative Application System (BRAAS). It effectively combines the 99:1 mix ratio of coating and catalyst required to harden within 2 hours. The machine has a max operating pressure of 256 bar, an air inlet pressure of 6 bar, and a pressure ratio of 32:1 with an output of 306 ccm per cycle.

## CLEANUP

When combined with VFI-7200, clean equipment with chemically dry mineral spirits. When not combined, use water as a cleanup solvent.

## PRECAUTIONS

Use appropriate personal protective equipment with adequate ventilation to avoid prolonged breathing of vapors or repeated skin contact. Do not add foreign material to the product. See Safety Data Sheet for complete safety data.