

## VFI®-7201 ABLATIVE SILICONE

VFI-7201 Ablative Silicone is a white sacrificial coating that protects surfaces from deteriorating with continuous reapplications after bursts of intense heat and flames. Silicone's unique, non-organic chemical properties prevent the coating from burning or combusting to protect masonry and metal. A high thixotropic nature allows it to be pumped for a quick turnaround with a high build on the surface at up to 100 mil passes. When necessary, VFI-7001 Silicone Catalyst can be used as a two-part system with VFI-7201 Ablative to further accelerate the cure. The primary color of VFI-7201 is white but dark gray (VFI-7200) and black (VFI-7202) are available.

- High build allows for fewer coats to get to the final thickness
- Ablative properties protect the substrate from heat and flame
- Easy one-component product for optimal spraying without advanced training
- Capable of accepting VFI-7001 Silicone Catalyst for quick turnaround times
- Protects multiple surfaces, including masonry, concrete, and metal

### PHYSICAL PROPERTIES

	TEST RESULTS
Tensile Strength (psi)	426 psi
Elongation (%)	230%
Final Elongation after 5000 Hours	187%
Tear Strength	29 pli
Permeance	8.8 perm
Low Temperature Flexibility	Pass

### LIQUID PROPERTIES

	TEST RESULTS
Solids by Weight	96%
Solids by Volume	96%
Liquid Density	11.26 lbs/gal
Specific Gravity	1.24 g/mL
Flash Point	187°F
Viscosity	5000 cps
Tack Free Time	1-2 hours @ 75°F, 50%
Cure Time	2-4 hours @ 75°F, 50%
Recoat Time	2-48 hours @ 75°F, 50%
VOC	46 g/L

**MANUFACTURER OF HIGH PERFORMANCE POLYMERS**

Toll-Free 800-307-9218 | [volatilefree.com](http://volatilefree.com) | [info@volatilefree.com](mailto:info@volatilefree.com)

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## APPLICATION REQUIREMENTS

VFI-7201 is a moisture-cure silicone that must be sprayed for optimal coverage but can be applied by roller or brush. 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. The time between subsequent coats should not exceed 48 hours. Ensure the product has cured fully before applying a second coat.

## STORAGE/SHELF LIFE

Store between 60°F - 90°F in a clean, dry building. The shelf life of unopened containers is 12 months after the date of manufacture. Once opened, it should be used immediately, and when stored after opening, the container must be nitrogen purged.

## MIXING

If separation is visible, mixing is recommended using a paddle mixer or drum roller. Mix only until uniform since this is a moisture-cured material and will start reacting with ambient moisture if exposed to the environment.

## SURFACE PREPARATION

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

VFI recommends using the oil-free pump machine WIWA HERKULES GX, model 333/075 that offers high pressure ratios and extensive flow rates for large surface areas and thick-build coatings. The machine is capable of being used with up to 4 spray guns at the same time. It produces a flow rate per cycle of 275 cm<sup>3</sup> or 9.3 fl oz, a pressure ratio of 75:1, and a max inbound air pressure of 6.5 bar or 94 psi.

## CLEANING

When cleaning equipment, using chemically dry mineral spirits as a cleanup solvent is recommended.

## 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.