

Chemglaze Z001 is a single component, aromatic moisture curing coating recommended for interior applications. Chemglaze Z001 is an ASTM D16 Type II oil-free product.

Chemglaze Z001 is used to protect metal substrates and prevent corrosion. The hard, glossy surface is resistant to most mineral acids, alkalis, detergents, lubricants, and chemicals. Chemglaze Z001 protects substrates in warehouses, industrial plants, chemical facilities, and laboratories.

## ***DIRECTIONS FOR USE***

### **Surface Preparation**

Thoroughly clean surfaces to remove all dust, oil, and grease. For most substrates, apply a primer to ensure proper adhesion and performance of the coating. Contact your Socomore representative for an appropriate recommendation.

### **Mixing**

Before opening, thoroughly mix Chemglaze Z001 for 5 minutes on a paint shaker. Open the lid carefully as the container may be under slight pressure. Stir the coating with a clean paint stick to check for any settled material and to ensure that the coating is homogenous. If settling is still apparent, return the closed container to the paint shaker and mix for an additional 5 minutes or until all settling has been reincorporated. The working life of Chemglaze Z001 is 8 hours.

### **Application**

Chemglaze Z001 is best applied at 13-35°C (55-95°F) with substrate temperatures at least 2.8°C (5°F) above the dew point. Chemglaze Z001 may be applied by airless, conventional, or HVLP spray. For HVLP or conventional application equipment, dilute 5-15% by volume with Chemglaze 9951 thinner. Airless spray requires the addition of Chemglaze 9951 thinner up to 10% by volume. Thoroughly mix again after adding the appropriate amount of thinner. During application, hold the spray gun at right angles to the surface approximately 20.3-30.5 cm (8-12 in) away and apply with a 50% overlap between passes.

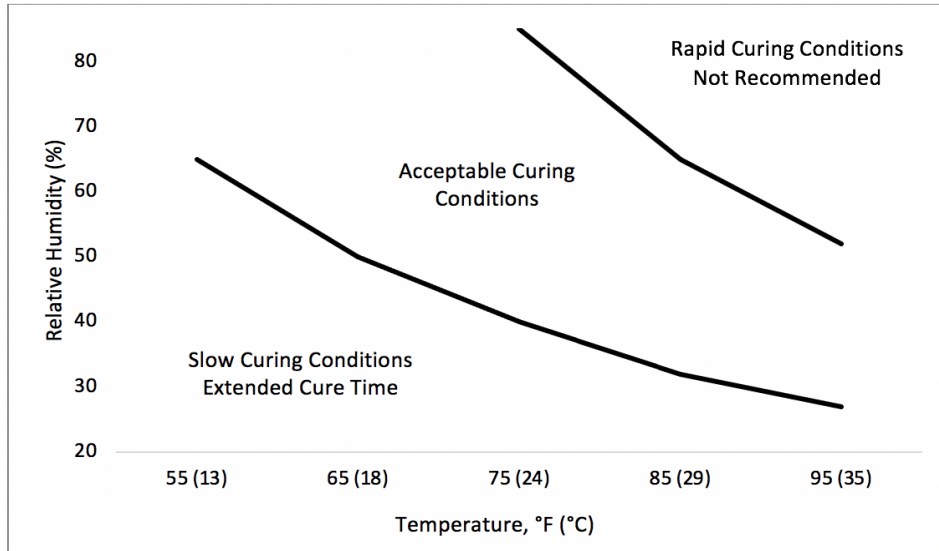
The optimum dry film thickness of Chemglaze Z001 is 38-51 micron (1.5-2 mil). Apply a maximum of 100 micron (4 mil) wet film thickness per coat as excessively thick coats can cause bubbling and sagging. The coverage rate is approximately 11.4 m<sup>2</sup>/L (464 ft<sup>2</sup>/gal).

### **Curing**

Chemglaze Z001 cures by reacting with moisture in the air. The cure rate is dependent on the temperature, relative humidity, and amount of air circulation needed to remove the solvent.

Under the acceptable curing conditions, the coating will develop its ultimate properties in approximately 7 days. Refer to the psychrometric chart below. Lower temperatures and humidities decrease the rate of cure, while higher temperatures and humidities increase the rate of cure. Higher cure rates may cause bubbling. Chemglaze 9995 catalyst may be used in low humidity conditions to

accelerate the rate of cure.



Chemglaze Z001 cures to a tack-free surface in 2-3 hours at 25°C (77°F) and 50% relative humidity. Room temperature cure times of 12 hours permit handling.

Chemglaze Z001 coating may be recoated after the first application within 3 hours minimum and 24 hours maximum. The recoat time is dependent on the temperature and humidity. High temperatures and humidities promote fast cure, while low temperatures and humidities slow down the cure. In high temperature and humidity conditions, recoat within 8 hours to prevent intercoat adhesion failure. If the maximum recoat time is exceeded, the surface must be roughened by sanding with fine sandpaper prior to application of an additional coat.

### Clean-Up

Use Chemglaze 9951 thinner to clean equipment. Do not use lacquer thinners, water, or solvents containing alcohols.

## TECHNICAL CHARACTERISTICS

### Typical Properties\*

Property	Value
Appearance	Clear Liquid
Viscosity, cps @ 25°C (77°F), ASTM D 2196-86 Brookfield LVT, spindle 2, 30 rpm	10-75
Density, kg/L (lb/gal) ASTM D 1475-60	0.92-0.95 (7.65-7.95)
Solids Content by Weight, % ASTM D 2369-87 modified	33-36
Flash Point (Seta), °C (°F) ASTM D 3278-82, Closed Cup	19 (67)
Volatile Organic Content (VOC), g/L (lb/gal) ASTM D 3960-87	608 (5.1)

\*Data is typical and not to be used for specification purposes.

## ***PRECAUTIONS FOR USE AND STORAGE***

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The shelf life of Chemglaze Z001 is one year from date of shipment when stored in the original, unopened container at temperatures between 10-32°C (50-90°F). Store indoors away from heat, sparks, and open flames.

Before using this or any SOCOMORE product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions. For industrial/commercial use only. Must be applied by trained personnel. Not to be used in household applications. Not for consumer use.

Manufactured for SOCOMORE by: LORD Corporation, Saegertown, PA.

**This technical data sheet replaces and cancels the previous one.**

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