

# FISTER, INC.

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## Armorgard Steel Coat

### STEEL FORM COATING

**Description:** Armorgard Steel Coat is a 100% solids, self-leveling, room temperature cure form coating. It was formulated to provide a hard, tough coating for metal concrete forms used for precast, tilt-up, slip form or cast-in-place applications. Armorgard Steel Coat does not contain VOC's or butyl glycidyl ether. Armorgard Steel Coat is conveniently packaged in pre-measured 1 ½ gallon and 4 gallon kits with larger bulk kits available upon request.

**Product Advantages:**

- EXTREMELY DURABLE SURFACE**
- USER-FRIENDLY MIX RATIO**
- STRONG ADHESION TO PREPARED STEEL**
- SINGLE COAT APPLICATION**

**Application Guidelines:** Normal application thickness is 25-35 mil (0.64-0.89 mm). Application may vary depending on the porosity and roughness of the surface.

<b>Handling Properties:</b>	<b>MIX RATIO, pbv(pbw)</b>	<b>1/1 (1.2/1)</b>	
	<b>COLOR</b>	<b>Light Amber</b>	
	<b>MIXED VISCOSITY, cP or mPa.s</b>	<b>8,600</b>	<b>ASTM 2196</b>
	<b>WORKING TIME, min</b>	<b>25</b>	<b>ASTM 2393</b>
	<b>GEL TIME, min</b>	<b>33</b>	<b>ASTM 2471</b>
	<b>TACK-FREE TIME, h</b>	<b>5-6</b>	
	<b>INITIAL CURE, h</b>	<b>9-12</b>	
	<b>APPLICATION TEMPERATURE, °F(°C)</b>		
	<b>Ideal</b>	<b>70-80 (21-27)</b>	
	<b>COVERAGE* @ 25 mil (0.64 mm), ft2/gal</b>	<b>63</b>	
	<b>*Varies with porosity of surface</b>		

<b>Physical Properties:</b>	<b>HARDNESS, Shore D</b>	<b>83</b>	<b>ASTM D 2240</b>
	<b>MAXIMUM SERVICE TEMPERATURE, °F (°C)</b>	<b>135 (57)</b>	

Armorgard Steel Coat will soften when exposed to extreme precast temperatures. A temperature of no greater than 135°F(57°C) is recommended when removing forms coated with Armorgard Steel Coat.

\*Butyl Glycidyl Ether. The EPA (SARA Title III, section 312) lists it (BGE) as "Toxic" (per ANSI Z129.1) by skin absorption and an immediate health hazard.

- Surface** To achieve excellent adhesion, the substrate must be clean and free of all loose and foreign material.
- Preparation:** Oils, grease, waxes or other contaminants must be removed prior to coating. The surface should be prepared to a near white metal finish per standard NACE 2/SSPC-SP 10. Armorgard Steel Coat will not bond to a contaminated surface. Once a white metal finish has been achieved, wipe down with a solvent wipe using isopropyl alcohol or acetone.
- Measuring:** The storage temperature of Armorgard Steel Coat will greatly affect the ease of mixing, application and curing time. Store material in an area that is dry and warm with temperatures from 60-80° Fahrenheit for a minimum of 24 hours prior to use.  
The mix ratio is 1 Part Resin (Part A) to 1 Part Hardener (Part B), making sure to scrape the material from the side of the pail of Part B, as it can be a bit thick.
- Application:** Armorgard Steel Coat can be applied with a grooved fiberglass or aluminum roller.

#### **SAFETY PRECAUTIONS**

Mix and pour in a well-ventilated area. Avoid contact with skin and eyes. If contact does occur, wash skin with soap and water and seek medical help. Read and understand all CAUTIONS on container labels and safety data sheets before using this material.

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. DO NOT WELD ON, BURN OR TORCH NEAR, ANY EPOXY MATERIAL, HAZARDOUS VAPOR IS RELEASED WHEN EPOXY IS BURNED.

#### **FOR INDUSTRIAL USE ONLY**

Fister, Inc. shall be in no way responsible for the proper use and service of the product. The information given in this publication is considered to be accurate and reliable and is provided as a service only. Physical properties shown are typical. Actual properties are dependent on curing conditions and degree of cure. Any information or suggestions given are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.