

ARMORGARD FAST CAST

Description:

Armorgard FAST CAST is a 100 % solids, self-leveling, primerless, odorless epoxy form coating for precast, tilt-up, slip form or cast-in-place applications. Armorgard FAST CAST has been formulated to provide a hard, tough coating for wood and concrete forms at application temperatures as low as 60°F. Use of Armorgard FAST CAST transforms a “rough” form into a hard, smooth surface, creating a quality finished cast. Armorgard FAST CAST does not contain the toxic chemical butyl glycidyl ether (BGE).*

Product Advantages:

- EXTREMELY TOUGH SURFACE
- ADHERES TO WOOD, CONCRETE
- REDUCES FORM PREP TIME
- STYRENE FREE
- BONDS TO DAMP CONCRETE

Application Guidelines:

Normal application thickness is 10-12mil (0.25-0.30mm). Application varies depending on the porosity and roughness of the surface. A single build may be applied to horizontal surfaces up to 1/8" thick (125 mil or 0.3 cm).

Handling Properties:

MIX RATIO, pbv			2/1	
COLOR			Clear	
MIXED VISCOSITY, cP	@ 77°F	(25°C)	750	ASTM D 2196
WORKING TIME, min	@ 77°F	(25°C)	12	
GEL TIME, min	@ 77°F	(25°C)	17	ASTM D 2471
SANDABLE TIME, h	@ 72°F	(22°C)	4.5-5	
TACK-FREE TIME, h	@ 72°F	(22°C)	3.5-4	
APPLICATION TEMPERATURE, °F				
Ideal			70-80°F	
Acceptable			60-90	
COVERAGE* @ 10 mil, ft ² /gal			160	
*Varies with porosity of surface				

Physical Properties:

HARDNESS (ASTM D-2240), Shore D	83		ASTM D-2240
MAXIMUM SERVICE TEMPERATURE, °F(°C)	140	(60)	
TENSILE STRENGTH, psi	7,000		ASTM D-638
ELONGATION @ BREAK, %	6.0		ASTM D-638

*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 Preparation:

To achieve excellent adhesion, the substrate must be free of all loose and foreign material and should be clean. Oils, grease, waxes or other contaminants must be removed prior to coating. These can be removed with a solvent wipe using isopropyl alcohol or acetone or an application of warm (120-140°F) caustic detergent followed by a hot water rinse. Repeat this procedure until the water does not "bead up" on the form. Armorgard FAST CAST will not bond to a contaminated surface.

Relative humidity and dew point must be determined before application to avoid adhesion failures. The dew point is used to predict the substrate temperature at which air begins to condense, in the form of water, on the substrate. Never apply a coating unless the form surface temperature is 5°F (2.5°C) above the dew point. This temperature difference must be observed until the epoxy coating is cured to a tack-free state. A dew point calculation chart is available from a Copps Technical Representative.

Mixing:

The storage temperature of Armorgard FAST CAST will greatly effect the ease of mixing, application and curing time. For best results, Armorgard FAST CAST should be stored at **(60-80 °F or 16-27 °C)** for at least 24 hours before use. Mix 2 parts A (resin) to 1 part B (hardener) for 2-3 minutes using a Jiffy Mixer and a slow speed drill. Mix at slow speed (less than 500 rpm) to avoid air entrainment. DO NOT mix more material than can be used within the stated working time. REMEMBER - you will have less working time at higher temperatures.

Application:

Armorgard FAST CAST can be applied with a squeegee, brush, non-shedding roller or a grooved fiberglass roller. Re-coating a used form requires a light sanding to remove concrete residue and improve surface profile and adhesion. DO NOT "OVERWORK" MATERIAL.

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 ON OR NEAR, ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.**

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