

Armorgard- Barrier Coating - K-522

Description:	AG-Barrier Coating is a two component, high performance coating system which provides excellent chemical resistance and protects equipment operating under immersion from the effects of corrosion.		
Ordering Information:	K-522-2 (2lb Kit) K-522-15 (15lb Kit)		
Intended Use:	Epoxy coating for tanks (not for tank lining), bunds, process vessels, pumps, pipes, heat exchangers and clarifiers operating under immersion. Protection to secondary containment areas from chemical attack and corrosion.		
Application Guidelines:	MAXIMUM SERVICE TEMPERATURE 175°F WORKING TIME 35 Minutes FUNCTIONAL CURE 5 days MIX RATIO 3:1 by Volume (5:1 by Weight) COLOR- Black, Tan and Gray		
Coverage:	Coverage per pound is 12.75 ft. ² at 10 mil thickness.		
Physical Properties:			<u>Tests Conducted</u>
	COMPRESSIVE STRENGTH	12,500 psi	ASTM D 695
	FLEXURAL STRENGTH	10,400 psi	ASTM D 790
	TENSILE SHEAR STRENGTH, (Steel/Steel)	3,000 psi	ASTM D 1002
	HARDNESS, Shore D	91	ASTM D 2240
Chemical Resistance:	Once fully cured, the material will demonstrate excellent resistance to a wide range of chemicals.		
Surface Preparation:	The surface to be coated must be free of all rust, scale, dirt, dust, grease, oil, release agents, or other contaminants. The more thorough the degree of surface preparation the better the applied epoxy will perform. If at all possible, it is recommended that the surface be grit blasted to a near white metal finish prior to applying the coating.		
Measuring:	AG -Barrier Coating kits are supplied with the resin and hardener pre-measured in the correct mixing ratio. It is best to use a full kit at one time to insure the proper mixing ratio is maintained. If less than a full kit is required for the job, both the resin and hardener must be accurately measured out. Do not attempt to "eyeball" the amount needed. Adding more or less hardener will only degrade the physical properties. If the kit becomes colder than 60 °F (15.6 °C), preheat both the resin and hardener by placing the cans in a hot water bath. The water temperature should not exceed 90 °F (32.2 °C) as high heat will reduce the working time of the material. Heating of the cans with a torch is NOT recommended.		

Mixing:

Add hardener content to the resin. Mix by hand using a large spatula or with a small, slow-speed drill and mixing paddle until a uniform color is reached. Generally this takes 2-3 minutes depending on the method used. Incomplete mixing will result in poor curing, loss of physical properties, and “soft spots”.

Application:

Fully mixed material may be applied with a brush or roller depending on the application.

SAFETY PRECAUTIONS

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.**

Avoid skin or eye contact. Wash skin with soap and water if contact occurs. If eye, contact occurs flush with water for 15 minutes and obtain medical attention. Read and understand all cautions on can labels and safety data sheets before using this material.

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