COPPS INDUSTRIES, INC.
An ISO 9001 Certified Company

TECHNICAL BULLETIN

Armorgard - High Performance Chemical Resistant Coating – K-524

Description:

HP-Chemical Resistant Coating is a two component, high performance coating system for the long-term protection of concrete and metal surfaces under chemical attack. This solvent free epoxy system has excellent chemical resistance to acids and alkalis.

Ordering Information:

K-524-2 (2lb Kit)
K-524-15 (15lb Kit)

Intended Use:

Pumps, chemical holding vessels, secondary containments, tanks and tank pads, chemical drains and channels, chemical loading and off-loading areas, walkways, industrial floors subject to chemicals.

Application Guidelines:

MAXIMUM SERVICE TEMPERATURE 175°F
GEL TIME @ 77°F 25 Minutes
FUNCTIONAL CURE 8 HOURS @ 77°F
MIX RATIO 2:1 by Volume (2.9:1 by Weight)
COLOR- Red, Black

Coverage:

Coverage per pound is 14.69 ft.^{2} at 10 mil thickness.

Physical Properties:

		Tests Conducted
COMPRESSIVE STRENGTH	10,100 psi	ASTM D 695
FLEXURAL STRENGTH	7,800 psi	ASTM D 790
TENSILE SHEAR STRENGTH, (Steel/Steel)	2,550 psi	ASTM D 1002
HARDNESS, Shore D	88	ASTM D 2240

Chemical Resistance:

HP Chemical Resistant Coating has excellent resistance to the following (30 day immersion):

10% Sulfuric Acid	30% Phosphoric Acid	Mineral Spirits
98% Sulfuric Acid	50% Sodium Hydroxide	
20% Hydrochloric Acid	10% Nitric Acid	

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:

HP Chemical Resistant 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.

FOR INDUSTRIAL USE ONLY

WARRANTY AND DISCLAIMER

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