

6012-2F Nova♦Bar

Description: 100% Solids Industrial & Commercial Epoxy

6012-2F Nova Bar is a 100% solids, advanced technology of diglycidyl ether of bisphenol-A resin reacted with a modified multiple ring cycloaliphatic amine adduct activator, *advanced curing agent system specifically designed for use with sand*. The resulting polymer structure is high strength, very adhesive, fast set, moisture tolerant, extremely tough with superior chemical resistance to corrosive waters, deicing chemicals, most aircraft and many truck and automotive chemicals including many acids. 6012-2F is a very quick setting, rapid reacting polymer system designed for cool condition applications on airfields, slab-on-grade floors, secondary containment prime coats, etc. without the need for the application of external applied heat.

Airfield Grout: As a grout the 6012-2F meets the FAA-P606 requirements for bonding in-pavement airfield light fixture bases into concrete pavement, kerfs, docking systems for taxi ways and landing zones. The product is also used for rapid repair in damp conditions on exterior concrete slabs, airfields, etc. or on interior floor applications where the concrete surfaces have been damaged and aggregate is exposed.

Industrial Floor Coating – 100% Sand Broadcast

This product is designed to provide penetration, wetting and sealing of substrates and surfaces as a fast set, high quality adhesive coating and is used with 30 grit sand as a surface broadcast. Cured film conforms to USDA requirements for coatings in incidental contact with food, does not support bacteria. 6012-2F is self-priming when used on cleaned surfaces for adhesive bonding.

Uses

- Airfield Lighting & Grout Applications
- Food processing areas floors & repair
- Concrete repair & “knitting”
- Damp conditions priming and repair
- Waste holding & treatment areas
- Petrochemical production areas
- Industrial Floors With Sand Broadcast

Advantages – 6012-2F

- Advanced curing agent – moderate to cool conditions to 40°F Without External Heat
- Not moisture sensitive
- Multi-Use product with Low Viscosity
- Quick set and low viscosity, easily mixed as a grout & coating for sand broadcast floors
- Pre-measured kits
- Rapid development of strength
- Excellent chemical resistance
- High abrasion resistance
- Conforms to USDA requirements
- High heat deflection up to 200°F+
- Top coated quickly
- fast set in mass and in thin films

General Physical Characteristics

Solids	100%
Shelf Life	>1 year
Pot Life	8-10 min. @ 75°F
Gel time – 200 gm. mass	12 min @ 75°F
Tack Free ASTM D2471 200 gm.	30 min @ 75°F
V.O.C. Content	0 grms/ltr.
Mixed Viscosity Grout/Sand	Pourable
Color	Light Amber
Tensile Strength (ASTM D638) psi	>1500 – prep metal
Tensile Strength psi min	8000
Concrete Bond Elcometer	Concrete Failure
Coefficient of linear. expansion (ASTM D1168)	cm/cm/deg. C .00040
Dielectric Strength (ASTM D149)	500lts/mil.
Arc Resistance (ASTM D495) sec.	145
Hardness - Shore D (ASTM D2240)	65

Mixing: *Jiffy mixer* - 650 rpm drill motor to mix product. Mix until a uniform blend of the two part is



evident after adding part B into part A. Do not change the proportions. Mix completely for approximately one to two minutes. *Power stir* - continue agitation during the applications. Avoid mixing air into the blend. Mix part B before use to assure pigment is in suspension. Mix at 2:1 ratio. 6012-2F is fast set and must not be left in the mixing bucket or it will set very fast. After the product is mixed, pour out and squeegee quickly then back roll to desired primer thickness.

Grout for Core & Kerfs: Assure that the surface of the concrete in the core or kerf is dry, clean and free of contaminants and dust. Vacuum clean and wipe down surfaces or remove debris that may affect bonding. Pre-measure aggregates for grout mixes. Grout blends; 1 part mixed product to 2 – 2.5 parts selected aggregate for pour-ability. Hot or warm conditions 6012-2F will set very quickly in large mass, such as a 5 gallon pail of mixed product and sand. Mix and pour blended grout quickly.

Temperature Range: 45°F to 90°F (air and surface) and 5°F above dew point. Conditions below 60°F, warm the application area if practical and/or keep the packaged product in a warmed area before using. For colder conditions consult ASTC.

For warmer application temperatures use 6012-2S medium set, slower version for warmer conditions.

Note: For every 18 degrees below the estimated Potlife the Potlife will double and the set time in thin films will also double, i.e., in thin films at cold temperatures the set time will be extended and hardness may take 12 to 24 hours to fully develop in the film. In grout mass applications the set time will be somewhat reduced but because of the mass and associated exotherm the set time will not slow as much as a thin film. Test the product at the temperature it is intended to be used in prior to application.

Thinning: Not required.

Reapply: Topcoat 1 to 4 Hours or as soon as the product has set and is becoming tack free. Full cure 24 to 48 hours @ 70°F.

Surface Finish Coating: After removal of excess sand on a full broadcast application, seal the sand/6012 surface using additional 6012-2F as needed or for an aliphatic surface coat finish use the 5500 clear coat polyurea/aspartic.

Preparation: Concrete must have a minimum 28 day cure prior to application. Remove any curing agent, form release materials, oils, wax, moisture or any material that may affect bonding. *Perform a Moisture Vapor Test before making the coating application on concrete. Clean by abrasive “brush-off” blast.

Provide rough profile minimum 2 mils. Review ASTM D4259 Abrading Concrete and ASTM F1869 Measuring Moisture Vapor Emission. Seal/repair all bug-holes, cracks and spalls, see ASTC data sheets on 830, 4034 and 3004 (joints). Use an ASTC primer over filled cracks and voids.

Do not apply to floors that have not been properly repaired, treated and primed or that do not have a pH of 7-8.5.

Remove all old coatings.

Thinning: Xylene, use sparingly for desired application result. Test before using on a large area.

Temperature Range: 35°F to 90°F (air and surface) and 5°F above dew point.

Packaging: 3 gallon kits and 15 gallon kits.

Pigment Colors: Medium Gray,

Limitations: Concrete; Best results over 2 to 3 mil profile and vapor barrier as needed.

Hot conditions: the product may set faster in hot conditions and slower in cold conditions. Keep out of direct sunlight and store the product kits on wood pallets at room temperature.



*Applicator shall wear protective clothing, goggles and NIOSH cartridge mask. Use positive air supply for confined spaces as required. This product is for use by professional applicators only. Wear Protective Clothing. Read MSDS before using this product. DOT/Flash Point – Non-flammable Liquid Classification. Warranty: See ASTC Polymers, Inc. Warranty data sheet. (8/10) Product data sheets subject to change without notice. © 2010 ASTC Polymers, Inc.