

TECHNICAL DATA

DESCRIPTION: HP Bondit III is a 3-component, solvent-free, moisture-tolerant, epoxy-modified, cementitious product specifically formulated as a bonding agent and an anti-corrosion coating.

USES: As an anti-corrosion coating for embedded steel, as protection for reinforcing steel, as a bonding agent for newly poured concrete and as a bonding agent to existing hardened concrete

- ADVANTAGES:**
- Pre-measured units for ease of use on the jobsite
 - Acts as an effective barrier against penetration of water and chlorides
 - Open-time up to 6 hours
 - Compatible with all cementitious materials
 - Can be used on interior, exterior, above, below and on-grade
 - Contains an integral corrosion inhibitors
 - Spray, brush or roller application
 - Water based- solvent free

PROPERTY	RESULTS	TEST METHODS
Compressive Strength 28 days	8000 psi (55.2 MPa)	ASTM C 109
Tensile Bond Strength, 14 days Open time: 2 hrs 9 hrs 24 hrs	> 200 psi (1.4 MPa) > 200 psi (1.4 MPa) > 200 psi (1.4 MPa)	ACI 503R
Flexural Strength 28 days	1000 psi (6.9 MPa)	ASTM C 348
Pot Life, mixed 150g, min at 72°F (22°C)	90	Method A
Slant Shear bond, 14 days Open time: 2 hrs 9 hrs 24 hrs	> 3000 psi (20.7 MPa) > 2500 psi (17.2 MPa) > 2000 psi (13.7 MPa)	ASTM C 882
Slitting Tensile	1000 psi (6.9 MPa)	ASTM C 496

Test Results are averages obtained under laboratory conditions at 70°F (21°C) and 50% rh. Reasonable variances can be expected.

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**SURFACE
PREPARATION:**

Remove deteriorated concrete around rusting rebar to expose sound concrete. The clean substrate must be alkaline (pH above 9.5 and free of harmful salts, oil, rust, dust and other contaminants). Remove all rust and mill scale by best mechanical means. Blast steel to white metal. Follow with vacuuming or oil-free dry-air blast (refer to SSPC-SP-10 or NACE-2).

The surface should be saturated surface-dry (SSD) without any standing water.

For additional information, refer to International Concrete Repair Institute Surface Preparation Guidelines for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Oxidation (No. 03730).

APPLICATION:

Apply with a stiff bristled brush or sprayer. With any method, be sure to work the bonding agent thoroughly into the substrate. When HP Bondit III is used as a bonding agent, the appropriate thickness is 20 mils (.5 mm); when used for reinforcement protection, the minimum thickness is also 20 mils (.5 mm) (2 coats of 10 mils {.25 mm} each). Keep bonding agent protected in direct sunlight and in temperatures above 95°F (35°C).

Pour concrete onto surfaces coated with HP Bondit III within 6 hours of application (@ 70°F)
REINFORCEMENT PROTECTION: Apply two coats at 10 mils each.

MIXING:

Pour contents of Part A and Part B into clean mixing bucket and blend the 2 components for 2 minutes. Slowly add all of Part C. NEVER ADD WATER. Use a Jiffy paddle and a drill to properly mix the product. NOTE: Mix the entire unit; do not mix partial units.

**PACKAGING/
YIELD:**

2.15 gal. unit (64 fl. oz. Comp. A + 64 fl. oz. Comp. B + 27 lb Comp C powder) Comp A + B in pail, Comp C in multi-wall bag. The yield is approximately 200 ft²/ 2.15 gal. unit.

RECOMMENDATIONS:

- Substrate and ambient temperature must be from 40°F (4°C) to 95°F (35°C).
- When HP Bondit III is used as a bonding agent for overlays or toppings, best results are obtained by topping within 6 hours of application.
- Precondition HP Bondit III materials approximately 70°F (21°C) for 24 hours before use.
- Protect from direct sunlight, wind and other conditions that could cause rapid drying of material.

VOC CONTENT:

0 lbs/gal or 0 g/L less water and exempt solvents when components are mixed and applied per manufacturer's instructions.

DANGER - CORROSIVE: HP Bondit III Part B Hardener contains aliphatic amines.

CAUTION:

WARNING! KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves and eye protection.

In case of eye contact, flush thoroughly with clean water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, or if material swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. Refer to Material Safety Data Sheet (MSDS) for further information.