

### TECHNICAL DATA

**DESCRIPTION:** **HP Bondit** is a water-based, acrylic bonding agent and modifying admixture mixed with mortars, plaster, stuccos and concrete mixes to enhance their physical properties, adhesion to substrates and durability.

**USES:** Cement-based mixes to improve their adhesion and durability, as auaging liquid for **HP Masonry Coating**, on walks, ramps and structural beams, to improve bond of mortars

- ADVANTAGES:**
- Acrylic polymer improves adhesion, cohesion, tensile and compressive strengths of mortars, stuccos and concrete mixes
  - Excellent chemical and UV resistance
  - Improves freeze thaw resistance of cement-based materials
  - Will not re-emulsify when exposed to water
  - Above or below grade

PROPERTY	RESULTS		TEST METHODS
	With Water	With 1-1 Bondit & H2O	
<b>Compressive Strength 28 days</b>	3800 psi (26.2 MPa)	4500 psi (31.0 MPa)	ASTM C 109
<b>Tensile Strength 28 days</b>	225 psi (1.5 MPa)	350 psi (2.4 MPa)	ASTM C 190
<b>Flexural Strength 28 days</b>	1000 psi (6.9 MPa)	1800 psi (12.4 MPa)	ASTM C 348
<b>Freeze/Thaw durability</b>	11 @ 98 cycles	102 @ 300 cycles	Method A
<b>Density, lbs/gal Lab method</b>			8.65 (1.04)
<b>Solids content by volume, %, lab method</b>			28
<b>Parts Well Bond to H2O Lab method</b>			1:2

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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#### APPLICATION:

**HP Bondit** can be added to cement-based mixes to improve their adhesion and durability, and also as gauging liquid for **HP Masonry Coating**. Application on walkways, ramps and structural beams is ideal. Use with masonry mortars to significantly increase bond. Interior or exterior, above and below grade application is acceptable.

**Substrate:** columns, decks, piers, walls, concrete masonry unit

1. Prepare surface with the methods for preparation will vary depending on the end product to be applied and the site and substrate conditions.

2. In all cases the surface must be clean and sound. Remove all loose and disintegrated material. Remove any and all traces of oil, grease, dirt, dust, efflorescence, biological, mold or mildew and release curing agents.

3. Vacuum, sweep, or blow out of the areas to be patched with clean oil-free air.

CONCRETE/CMU/MASONRY SURFACES: Pre-dampen the area to be patched or coated with potable water to a saturated surface-dry condition. Do not leave standing water on surface. Proper surface preparation and cleanliness are extremely important.

#### MIXING:

**HP Bondit** can be used neat or diluted with potable water. If diluting with water, mix 2 parts water to 1 part **HP Bondit** thoroughly. For scrub coats applied before patching or overlays, use **HP Bondit** undiluted. To improve the adhesion of pointing mortars and reduce cracking in cement plaster, use 1 part **HP Bondit** to 3 parts water. For large overlays or toppings, use 2 parts **HP Bondit** to 1 part water.

#### CURING:

1. When rapid drying is expected due to high temperatures, rapid air movement, or wind, it is recommended that the surface be covered with wet burlap to retain moisture.

2. For normal use, allow 24 hour curing period.

3. For heavy wheeled traffic, allow a 4 day curing period.

#### LIMITATIONS:

DO NOT use **HP Bondit** when ambient air or surface temperature is below or expected to fall below 40°F (4°C) within 24 hrs. High relative humidity, excessive moisture, and low temperatures will retard the curing of **HP Bondit** modified mixes.

DO NOT overmix or aerate mixes. Use with proper ventilation. DO NOT use **HP Bondit** as a surface applied external bonding agent or primer. NOT recommended for exposure to soft water or immersion where contact with water-treatment chemicals are present without protective top coat. Caution should be used when a highly solvent material is being used over a base system that contains **HP Bondit**.

#### 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.