



DATASHEET

BONDcoat® EP

100% SOLIDS EPOXY BONDING AGENT FOR NEW CONCRETE TO OLD

PRODUCT DESCRIPTION:

Bondcoat EP is a two component, 100% solids, moisture-insensitive epoxy bonding agent. Application of **Bondcoat EP** to wet or dry, properly prepared substrates assures tenacious adhesion of new toppings, patching compounds and tile bedding mortars when used in accordance with instructions. It may also be applied to steel, tile, wood and fiberglass.

USES:

- As a **combination waterproof barrier and bonding agent** when applying new concrete toppings over old concrete.
- To **improve adhesion of tile bedding mortars** to existing concrete, or may be used directly for tile bedding in combination with very fine sand.
- To **prime and waterproof steel reinforcement** prior to application of patching compounds or concrete pouring while improving adhesion of these materials.
- To penetrate and **consolidate low strength floors**, such as asbestos-cement or cinder concrete, and to improve adhesion of new toppings or patching compounds to same.
- To **promote adhesion** of concrete, bedding mortars or toppings to non-cementitious substrate, such as tile, plywood decking, or steel plate.

TECHNICAL DATA:

Parameters	Results
Base	Modified Epoxy with adhesion-promoting additives.
Toxicity	Non-toxic after curing
Application	Brush
Viscosity	Approx. 450 - 700 cps
Bond Strength Strength, Psi	500 (approx.)
Tensile Strength, N/mm²	30
Pot Life	30 minutes
Shelf Life	12 month in original packing
Packing	5 kg, 20 kg
Cleaning	Multikleen EP-100 Thinner
Application Temperature	10-40 °C



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Bondcoat EP/2013/R1-2015



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APPLICATION DATA:

1. Surface Preparation: Apply to clean, dry or damp (free of standing water) substrates free of grease, oil, dirt, coatings or other materials which may inhibit adhesion. Steel surfaces should be free of rust and scale for maximum effectiveness.

2. Mixing: Add pre-measured hardener to short-tilled container of resin, or carefully measure proper proportions of resin and hardener when mixing

partial units. Mix using slow speed drill mixer for at least two minutes, scraping container sides and bottom periodically to assure thorough blending of all materials.

3. Application: Apply by brush, roller or squeegee. On porous surfaces, apply in such a manner that material briefly "floods" the surface, allowing good penetration. If material is completely absorbed, apply additional material. On smooth surfaces apply even, thin films. If excess material is ponded, spread or remove. **Nominal coverage rate is 25 - 50 sq. ft. per kg.** Actual coverage will vary with surface texture, porosity and application technique. If desired, more than one coat may be applied. For best results, apply second coat within 96 hours, or prepare fully-cured first coat by light sanding or solvent-wiping with a strong solvent such as Methyl Ethyl Ketone, Xylene, or 1,1,1 - Trichloroethane **CAUTION!:** Solvents are hazardous materials. Carefully observe all Material Safety Data Sheet guidelines as directed by the solvent manufacturer.

4. Topping: New concrete or other cementitious topping/patching materials may be applied at any point from immediately after **Bondcoat EP** application, until the mixture begins to "gel" and becomes tacky. Do not apply toppings over **Bondcoat EP** which is cured to a tack-free or near tack-free state. Reapply **Bondcoat EP** the above instructions if necessary, to assure proper bonding under such conditions.

5. Limitations: Do not apply below 5°C or when temperatures of substrate, air or topping may fall below 5°C within 8 hours of application. Do not apply against hydrostatic pressure from behind the slab, as this product is not intended for negative-side waterproofing.

6. Curing, Handling, Clean-up: Clean tools immediately after use with above-referenced solvents. Avoid skin and eye contact. Use with adequate ventilation. Observe all safety handling, storage and personal protection guidelines as detailed in the Material Safety Data Sheets provided with this product. Temperature affects curing, handling and spreading.

6 months in dry, frost free conditions with unopened pack at 25 °C.



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WARRANTY

Multichem warrants **Bondcoat EP** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **Bondcoat EP**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **Bondcoat EP**.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.

