

DA 'CRETE™ 'Bond' EP

Concrete bonding agent based on Epoxy Resin.

ABOUT

Bond EP helps to bond fresh wet concrete / mortar to an old surface of concrete / mortar.

It is suitable for all construction elements such as bridges, roads, columns, slabs, floor toppings made of cement concrete. It may also be used in wet areas where substrate may remain permanently damp after bond with new concrete.

APPLICATIONS

It's based on solvent free epoxy resin system suitable for bonding both new and old concrete / mortar. All structures based on concrete can receive Bond EP.

Bond EP comes in 2-component (Base and Hardener). Before inter-mixing base and hardener, mix individual components thoroughly. The entire contents of the base and hardener shall be mixed in one go until a uniform colour is obtained.

Care shall be taken to form a seamless coating. Second coat shall be applied and used as the bonding coat. Sand blasting may be required in some cases like shotcrete applications etc. depending on site conditions.

COVERAGE

Bond EP can be applied by brush. Coverage depends on texture / profile and porosity. It approximately records a coverage of 2sq.m/kg (2.6 sq.m/liter).

BENEFITS



Good Overlay Time

Provides overlay time, enabling to place the concrete for longer period of time.



Excellent Adhesion

Excellent adhesion and bonding to all cementitious surfaces. Bond strength is higher than tensile strength of concrete.



Restricts Cl⁻ ion Penetration

Mitigates migration of chloride ion penetration from existing concrete.



Dry / Damp substrates

Can be applied on both dry / damp substrates.

PROPERTIES

Property	At 20°C	At 30°C
Pot Life	5-6 hrs	2-3 hrs
Full Cure	7 days	5 days
Overlay Time	10 hrs	6 hrs
Comp Strength BS 6319 Pt 2	@ 7 days	50 MPa
Flex Strength BS 6319 Pt 3	@ 7 days	35 MPa
Tensile Strength BS 6319 Pt 7	@ 7 days	20 MPa
Shear Strength BS 6319 Pt 4	@ 7 days	10 MPa

SAFETY

Avoid contact with eyes, mouth etc. Wash with plenty of water on contact. If accidentally ingested, seek immediate medical attention. Use of protective gloves is recommended. Shall not be exposed to flame.

CLEANING

Bond EP shall be removed from tools, equipment and mixers immediately after use. Hardened material can only be removed mechanically.

SPECIFICATION CLAUSE

The 2-component epoxy bonding agent shall be Bond EP from Da 'Crete Chem Pvt. Ltd. Care shall be taken to ensure the methodology is followed as per the instructions mentioned in the Technical DataSheet.

PACKAGING

Bond EP is supplied in 1.5, 7.5 Kgs, 15 Kg and 30 Kg kits.

SHELF LIFE & STORAGE

Shelf life of Bond EP is 12 months from the date of manufacture, when proper storage conditions are practiced.

Bond EP shall be stored away from extreme temperatures under shade. Smoking / exposure to flames can pose explosive hazards.

The information given is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification. Since the conditions of use are beyond our control, we do not warrant the results to be obtained.

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