

## **BONDACOAT EP**

### **Solvent Free Epoxy Resin Bonding Agent**

#### **DESCRIPTION**

**BONDACOAT EP** is a high performance, two component, solvent free based epoxy resin containing pigments and fine fillers.

**BONDACOAT EP** complies with ASTM C881: Type I, II, III, IV and V, Grade 2 Class E&F.

#### **USE**

**BONDACOAT EP** is used for bonding agent fresh wet concrete materials to existing concrete surfaces. It is also used on horizontal and vertical surfaces where mortar or concrete can be supported by formwork. The long "open" life makes it suitable for use with formwork or where additional steel reinforcement has to be fitted. The product is ideal for roads and bridges, pavements, loading bays and factories, and for bonded or granolithic floor toppings. It is suitable for internal and external applications.

**BONDACOAT EP** may be used as part of a repair system where a substrate/repair barrier is required or where the substrate is likely to remain permanently damp or wet.

#### **ADVANTAGES**

- Easy to apply
- Can be applied to dry or damp substrates.
- Exhibits high mechanical strength.
- Positive adhesion exceeds that of tensile strength of the host concrete.
- Slow cure allows ample time to erect steel reinforcement and formwork.
- Solvent free – can be used on enclosed locations.
- Available in green, red and white.

#### **SURFACE PREPARATION**

Surface preparation is the most important factor in developing a successful coating system. The purpose of surface preparation is to remove all dust and contaminants that can interfere with adhesion and to develop a surface roughness to promote mechanical bond.

Wet substrates should be sponge dried to remove all surface water, then dried. Treat oil or grease contamination with degreaser followed by water or steam cleaning.

#### **MIXING**

The product components should be thoroughly mixed together. The hardener and base components should be stirred separately before mixing to disperse any settlement.

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate and application, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RITVER Technical Service Department.

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The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 3 minutes. Use of heavy duty slow speed power drill with a jiffy mixing blade. Mix the two components in the quantities supplied taking care to ensure hardener container is scraped clean. Do not add solvent thinners at any time.

#### **APPLICATION**

**After mixing, BONDACOAT EP** should be applied. It can be applied using a brush or sprayer, being sure to achieve an unbroken coating across the entire surface.

**BONDACOAT EP** should be tacky before the new concrete, screed or mortar is placed.

The maximum overlay times should be carefully observed. Failure to apply the new concrete, screed or mortar within the maximum over coating time will result in **BONDACOAT EP** becoming hard, thus creating a slip plane rather than a bonding action. If the maximum overlay time is missed, then the **BONDACOAT EP** must be mechanically removed and a fresh application made.

As soon as the **BONDACOAT EP** has been applied, any required reinforcement and/or formwork should be erected and fixed securely in place within the maximum overlay time specified herein.

#### **PACKING**

5 Liter pack including (base and hardener).

#### **COVERAGE**

4.5 m<sup>2</sup>/ liter at 250 microns (WFT) in two coats.

#### **CLEANING**

Tools and equipment can be cleaned immediately by using **THINNERCOAT 10** organic solvent.

#### **FLAMMABILITY:**

**BONDACOAT EP** is a nonflammable material while **THINNERCOAT 10** is flammable, so do not expose to naked flames during application.

#### **SHELF LIFE**

12 months in tightly closed container.

#### **HEALTHY AND SAFETY**

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream.

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Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.

MSDS is available on request for the safe handling of this product.

#### **FIRST AID**

**Eyes:** In the event of accidental splashes, flush eyes with warm water immediately and obtain medical advice.

**Skin:** Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners.

**Inhalation:** Remove to fresh air, loosen collar and keep patient rested.

**Ingestion:** In case of accidental ingestion DO NOT INDUCE VOMITING. Obtain immediate medical attention

### **TECHNICAL PROPERTIES**

<b>TEST</b>	<b>RESULT</b>
Compressive Strength (ASTM D695)	70 N/mm <sup>2</sup>
Tensile Strength (ASTM D638)	35 N/mm <sup>2</sup>
Slant Shear Strength (BS 6319, Part4)	40 N/mm <sup>2</sup>
Thermal Compatibility (ASTM C884)	Passed
Bond Strength by Slant Shear (ASTM C882)	14 N/mm <sup>2</sup>
Pull off Strength (ASTM D 4541 )	>2.0 N/mm <sup>2</sup>
Water Absorption (ASTM D570)	0.05 %
Pot Life @35 °C	> 2 hours
Full Cure	2 days @ 20°C 1 day @ 35°C
Maximum Overlay Time	24 hours @ 20°C 12 hours @ 35°C

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