

## BONDACOAT AR

### Acrylic Polymer Latex Bonding Agent

#### Composition and Application Field

**BONDACOAT AR** is a single component emulsified Styrene Acrylic emulsion as polymer latex. It is supplied in milky low viscosity liquid ready to mix with cementitious repairing mortar and screeds.

**BONDACOAT AR** is multipurpose bonding agent and concrete admixture.

Compliance: BS 6319 Part 2, 3, 4.

#### Advantages

- Water based no VOC.
- Applicable for internal and external purposes.
- Easy to mix with cementitious repairing materials.
- Reduce shrinkage and hair cracks.
- Improves the hardness and compressive strength.
- Improves erosion and corrosion resistance.
- Bonding agent of new concrete to old concrete.
- Waterproofing characters, applicable in water reservoirs.
- Good penetration in concrete surface, masonry and plasters.
- Chloride free.

#### Surface Preparation

All surfaces should be clean, dry and free from dust and other contaminants. Wet substrates should be used sponge dried to remove all surface water, then dried. Treat oil or grease contamination should be removed by degreaser followed by water or steam cleaning. Keep the depth of application area at 10 mm minimum to avoid featheredging. Exposed steel bars must be cleaned and roughen the surface and remove the laitance by light scrubbing or grit blasting. The concrete substrate should be flushed with cleaned water and the steel bars coated by anticorrosion paint ZINCOAT EP or PRIME EPS [Red] – Refer to TDS

#### Mixing

##### Slurry BONDACOAT AR:

Clean water: 1.0 liter

##### BONDACOAT AR: 1.0 liter

OPC: 3.0 – 5.0 kg

All part should be mixed by using low speed drill paddle. The mixture is ready to use as a primer coat.

##### Mortar BONDACOAT AR:

Clean water: 8-10 liter

##### BONDACOAT AR: 10.0 liter

OPC: 50.0 kg

Graded washed silica sand: 150 kg

All part should be mixed by using low speed drill paddle. The mixture is ready to use as patching repairing mortar.

#### Application

**BONDACOAT AR** should be applied immediately after removing the shattering by spray in two directions to confirm that the concrete surface was completely covered.

**BONDACOAT AR** can be applied to the surface recently hardened after the surface sprayed by water to keep the concrete surface saturated.

#### Physical Properties

Appearance	Milky low viscosity liquid
Specific Gravity	1.02 + 0.01
Solid Content	53% + 1.0
pH	> 8
Dry time	20 minutes
Flash Point	Nonflammable

#### Coverage

8 m<sup>2</sup>/ liter as primer coat.

5-10.0 liter per 50.0 kg cement as concrete admixture.

#### Cleaning

Tools and equipment must be cleaned immediately by using sweet water.

#### Technical Properties

The follow results are for repairing, render and mortar:

Compressive Strength BS 6319 part 2	28 N /mm <sup>2</sup>
Flexural Strength ASTM C 190	10 N /mm <sup>2</sup>
Tensile Strength ASTM C 190	3.0 N /mm <sup>2</sup>
Slant Share Bond	30.0 N/mm <sup>2</sup>

#### Package

1, 5 USG

#### Storage

Product should be at 25°C in dry conditions.

#### Shelf Life

12 months in tightly closed container.

#### Health 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. 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.