



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 a multipurpose bonding agent and concrete admixture.

Compliance: BS 6319 Part 2, 3, 4.

Uses

BONDACOAT AR is used as primer water base of cementitious plasters. **BONDACOAT AR** is used as admixture to reduce the shrinkage of concrete repair mortars.

BONDACOAT AR can be use as a boding agent for bridges, car parking, water tanks and airport runways.

It is suitable for warehouses, garages and industrial buildings.

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. Use a dry sponge to remove water on wet surfaces. 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 scrubbling 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
Grade washed silica sand:	150kg

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

Application Method

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 to keep the concrete surface saturated.

Coverage

8 m²/liter as primer coat.

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

Cleaning

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

Package

1, 5 USG

Technical Properties

Appearance	Milky low viscous liquid
Specific Density	1.02 ± 0.01
Solid Content	53% ± 1
pH	>8
Dry time	20 minutes
Flash point	Nonflammable

The follow results are for repairing, render and mortar.

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

Storage and Shelf Life

Product should be stored at 25oC in dry conditions.
18 months in tightly closed container.

Health and Safety

The material should be applied in a good ventilated area. Avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of eye contact, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health and safety standards ISO 14001 and OHSAS 18001.