

CAP SUPERBOND

MULTI PURPOSE BONDING ADHESIVE

DESCRIPTION

CAP SUPER BOND is an aqueous, hydrolysis resistant anionic, styrene copolymer dispersion with high bonding characteristics. **CAP SUPER BOND** is primarily intended for modifying hydraulic binders and for the production of flexible coating.

FEATURES

The stabilized polymer particles in the aqueous dispersion bind together to form continuous films and strands which stitch to the opposite sides of the void together and block up spaces, thus increasing flexibility and resistance to water penetration. The **CAP SUPERBOND** modified cementitious system imparts an elastic quality that more rapidly accepts thermal movements and surface tension. It ensures superior adhesion.

USES

- As a liquid component in two components cement bonding slurry / mortar / rendering.
Note: Flexible waterproofing slurries are eminently suitable for additional or subsequent protection of concrete, e.g. on sections of roads, bridges exposed to spraying water and general intake.
- As a primer for subsequent application of cementitious mixes i.e. Cap-patch / Caplevel Top / Capcrete etc. for renders and screeds.
- As an additive for cement base thin tile bedding mortar.

ADVANTAGES

- Improves the adhesion of most cement based mixes.
- Non re-emulsifiable, so water resistant.
- Resists deterioration caused by moderate chemical attack.
- Decrease the permeability of concrete to deicing salts.
- Reduce shrinkage and cracking in repair and screed mixes through increased mortar flexibility.
- High performance both indoor and outdoors.

TYPICAL PROPERTIES

Appearance:

Milky white liquid.

Consistency:

Low viscosity.

Specific gravity:

1.02 At 25 °C.

Particle size:

0.20 µm.

Toxicity:

Non toxic

Flammability:

No tendency to flash or ignite.

Shelf life:

Minimum 12 months in sealed original containers under recommended storage conditions.

DIRECTIONS FOR USE

Surface preparation:

All spall and sealed materials must be removed from the surface and crevices. Surfaces must be structurally sound, clean, free of paint, oil, grease, soil, efflorescence, curing and parting compounds and other foreign matter.

Any surface to receive **CAP SUPERBOND** as a primer or cement modifier, must be damp but not puddle to prevent the absorption of water from the **CAP SUPERBOND** mix.

Mixing:

CAP SUPERBOND is dispersion and must always be stirred or shaken before use. Stir **CAP SUPERBOND** to a uniform blend when mixing with water.

When batching with **CAP SUPERBOND**, always premix both the dry ingredients (sand and cement) and the wet ingredients separately. Then slowly blend the mixed Portland cement into the premixed **CAP SUPERBOND** additive and water to form a mortar of desired consistency. Over-mixing will entrap air and must be avoided. Usage of lesser quantity of **CAP SUPERBOND** than specified will lessen the bond strength.

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Method of Application:

Primer: Apply CAP SUPERBOND by brush or roller on well prepared surface, while the prime coat is still tacky. Apply conventional Portland cement topping suitable for the anticipated service requirements.

Bonding coat: Bond/adhesion coat for concrete brick and masonry surfaces to accept cementitious renders, screeds or repair mixes.

Cement	50 kg
CAP SUPERBOND	15 to 20 litres
Water	To achieve brush able consistency

Mix the cement with CAP SUPERBOND to a thick creamy consistency. The CAP SUPERBOND bonding grout acts as glue to bond new concrete to existing concrete. To obtain maximum bond strength, the surface of the old concrete should be thoroughly moistened with water. Any puddles should be removed by mopping or blowing with compressed air. The grout must be intimately scrubbed onto the prepared surface. Use a stiff bristle brush to apply the bonding coat in a layer no more than 2 mm thick.

Topping: The topping must be applied while the bonding grout is still soft and plastic. Any conventional portland cement topping suitable for the anticipated service requirements may be used.

Waterproof render: Sealing and waterproofing of concrete water tanks, basement and exterior.

Foundation rendering:

Cement	50 kg
Dry clean sand	125 kg
CAP SUPERBOND	15 kg
Water	As required for application consistency

Finishing:

In thin resurfacing work or screeding for a smooth surface, a single pass with a steel trowel is recommended. Do not over finish. Excessive steel trowelling will cause desiccation or drying out.

Flexible barrier coat: For water proof lining of water retaining structure, new and old building.

Cement	50 kg
Dry clean sand	75 kg
CAP SUPERBOND	40 – 50 litres
Water	As required to adjust consistency

Pour liquid component in a clean mixing container. Add powder component (premixed cement and sieved sand) gradually while stirring slowly. Mix the contents with a drill fitted with a suitable mixing paddle, to a uniform consistency. Over mixing may entrap air.

Thoroughly work the material either by brush or trowel into the substrate. Make sure that the rounded edges are fully coated. Do not apply coats thicker than 1.5 mm. While the coat is still wet, embed fiber glass mesh into the coat. For additional reinforcement, use the trowel to work the material up and through the mesh until it is completely embedded. Allow an overlapping of 50 to 100 mm wide on each side as well as up stands. Apply a second or subsequent coat of 1.5 mm thick after the previous coat has dried. Smooth over by float edge, creating a smooth void less membrane. Prevent premature drying and protect from extreme heat.

Additive for tile bedding mortar:

CAP SUPERBOND can be used as an additive for tile bedding mortar as specified in BS 5980.

Hydration and Curing:

Proper curing will improve the properties of the overlay and will prevent excessive shrinkage.

CLEANING OF TOOLS

Tools, mixers and equipment must be cleaned intermediately to avoid built-up and in the end with water if still wet. Harden dry material can be removed by mechanical means.

SAFETY PRECAUTIONS

CAP SUPER BOND is non hazardous in normal use. Contact with eye or skin should be cleaned or washed immediately with abundant water.

PACKAGING

CAP SUPER BOND is supplied in 5kg cans, 20kg pails and 200kg drums

STORAGE

- Store in sealed conventional containers, protected from extreme weather conditions.
- Stir well before use, if stored for a long time.

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TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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