TECHNICAL DATA SHEET

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MULTI CONSTRUCTION CHEMICALS
WWW.MCC-SA.CO.ZA

MULTI PLASTER BOND

Concrete Bonding Agent

Description

MULTI PLASTER BOND is a milky white liquid. produced from styrene and butadiene by high pressured emulsion polymerization. The latex contains microscopic particles of synthetic rubber, dispersed in an aqueous solution. MULTI PLASTER BOND modified mixes may be slightly darker than corresponding unmodified mixes.

Typical Applications

A general purpose, bonding agent to give concrete and mortar added adhesion, flex, water resistance and hardness. Used in concrete repairs, toppings and screeds, rendering, waterproofing and tank lining, bedding of tiles and bonding new to old concrete surfaces.

Advantages

- Earlier hardening and Greatly improved flexibility
- Tensile strength normally doubled
- Reduced shrinkage
- Good abrasion resistance
- Reduces bleeding
- Increased durability and toughness
- High resistance to water penetration
- Good resistance to many chemicals and to mineral Oil
- Good resistance to frost attack
- Good resistance to salt permeation
- Excellent adhesion to steel and concrete
- Prolonged corrosion protection
- Similar thermal expansion and modulus properties to concrete (unlike resin mortars and primers)
- Non-toxic. Can be used with potable water
- Increases freeze I thaw resistance

Typical Properties

Application	Mix with cement / water
Slurry Ratio (mass)	3 parts Cement 2 parts Plast. Bond
Standard Dose	10 Lt Plaster Bond Per 50Kg Cement
Application Temp.	5 - 35°C
Colour	Milk White
Cleaning	Water

Watch Points

- Always use fresh cement and a well-graded aggregate free of excessive fines.
- Keep mixing time to a minimum .
- Avoid using excess water.
- Never apply MULTI PLASTER BOND or concrete to a bonding slurry that has been allowed to dry out. Troweling should proceed with the work. Do not over trowel and avoid re-troweling. Protect from too rapid drying out prior to troweling.
- Rapid Hardening Cement should be used in cold weather conditions.
- Exposure to intense lighting or direct sunlight will produce discolouration in time

MULTI CONSTRUCTION CHEMICALS SOUTH AFRICA (PTY) LTD
Reg. No. 1991/018517/23

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Directions for Use

Surface Preparation:

Surfaces should be clean, sound and free of deleterious substances. Remove all laitance, oil. grease, mould oil or curing compound from concrete surfaces using wire brush, bush hammer, scabbler or other plant as appropriate. Ensure that reinforcing steel is clean and free from grease or oil. Remove scale and rust. When repairing spalled or damaged concrete, ensure that the concrete has been cut back to thoroughly sound material.

Bonding Slurry:

Wet down absorbent surfaces such as concrete, brick, stone, etc. ensuring that they are saturated but free of surface water. Prepare a bonding slurry of 3 parts cement to 2 part MULTI PLASTER BOND mixed to a lump-free creamy consistency. Using a stiff brush, work the bonding slurry well into the damp surface ensuring that no pinholes are visible. DO not apply bonding slurry at thickness in excess of 2mm.

Application:

Mixing should preferably be carried out in an efficient concrete mixer. A pan type mixer is recommended. Hand batching is permissible when the total weight of the mix is less than 25 kg. Charge the mixer with the required quantity of sand and cement and premix for approximately 1 minute. Pour in the desired quantity of MULTI PLASTER BOND and mix for maximum 2 minutes, to avoid excessive air entertainment. Finally add the water until the required consistency is achieved. Owing to the strong plasticising properties of MULTI PLASTER BOND, rapid thinning can occur - avoid adding excessive water. Moisture cure for at least 1 day and then allow to dry out slowly

Vertical Surfaces:

Apply the bonding slurry to the prepared surface and then render immediately with MULTI PLASTER BOND modified mortars in coats to a maximum thickness of 6mm per coat, as greater thicknesses can lead to slumping. However, several coats can be applied in rapid succession usually within 15 to 30 minutes, Thicker coatings can be applied providing formwork is used. Close the surface using a wooden float or steel.

Equipment Care

Clean all equipment immediately after use with water.

Packing

Supplied in 5Lt and 25LT polycans

Quality Assurance

Multi Construction Chemicals South Africa (PTY) Ltd production and testing programs comply with all local and international testing standards.

REVISION: 3.1