Masonry Cement Composites (Pty) Ltd

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Bond 1070



SKU: MWMB

TECHNICAL DATASHEET

BOND 1070
Cement Bonding Agent

BOND 1070 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. BOND 1070 modified mixes may be slightly darker than corresponding unmodified mixes.

TYPICAL APPLICATION
A general purpose, bonding agent to give cement-based 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 frost attack
• Good resistance to salt permeation
• Excellent adhesion to steel and concrete
• Prolonged corrosion protection
• Similar thermal expansion and modulus properties to concrete
• Non-toxic. Can be used with potable water
• Increases freeze I thaw resistance

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 BOND 1070 or concrete to a bonding slurry that has been allowed to dry out.
• Rapid Hardening Cement should be used in cold weather conditions.
• Exposure to intense lighting or direct sunlight will produce discolouration in time

DIRECTIONS FOR USE

Surface Preparation:

Application Mix with cement / water
Slurry Ratio (mass) 3 parts Cement
1-part Multi Bond
1-part water

Standard Dose 5 Lt Multi Bond
Per 50Kg Cement
Application Temp. 5 - 35°C
Colour Milk White
Cleaning Water

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 1-part BOND 1070 and 1-part water 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 BOND 1070 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 plasticizing properties of BOND 1070, rapid thinning can occur - avoid adding excessive water. Moisture cure for at least 1 day and then allow to dry out slowly

Vertical Surface:
Apply the bonding slurry to the prepared surface and then render immediately with BOND 1070 modified mortars in coats to a maximum thickness of 6mm per coat, as greater thickness 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.

Warranty
Masonry Cement Composites (PTY) Ltd products have a manufacturing defect free warranty. Products, when applied as

stipulated in this technical datasheet, will perform as specified without manufacturing defect.

REVISION: 5.2