



MCON RASAYAN PVT. LTD.

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MCON BOND SBR

SBR Based Bonding Agent

Product Description :-

MCON BOND SBR is a styrene butyl rubber based bonding agent from selected synthetic copolymers for structural repairs. It provides a strong bonding coat to protect and repair RCC and steel structures.





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Areas of Application :-

- ✓ For concrete repairs - Spalled concrete of floors, columns, beams, chajja, slabs, parapets, etc.
- ✓ As a bond coat – For bonding of new concrete to old concrete, masonry stone work, plastering.
- ✓ As bonding slurry coat for pinhole treatment on concrete surface.

Features & Benefits :-

- ✓ Excellent adhesion to most building substrates.
- ✓ Improves flexural, tensile, and thin section fragility of cementitious systems.
- ✓ Improves bond strength with steel.
- ✓ Resists water pressures up to 5 bars.
- ✓ Self-curing.

Technical Specification :-

Colour :	Milky white
Form :	Liquid emulsion
Application Temp :	< 50° C
Service Temp :	- 4° C to + 90° C
Pot Life :	Approx. 30 minutes
Gravity :	1.3 ± .01
Ph :	7 - 9



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Method of Application :-

For Bond Coat :-

Surface preparation is vital for effective adhesion and bonding of BOND SBR.

To start with, free the surface from laitance, loose dust particles, oil, grease and other dirt.

Then: Weigh out 1 kg of BOND SBR in a plastic container of 2 litre capacity.

Weigh out 1 kg of ordinary Portland cement from a bag of fresh cement.

Add the cement gradually to BOND SBR with constant stirring.

Ensure there is no formation of lumps.

Stir constantly until all the cement has been added to BOND SBR and slurry of uniform consistency is achieved.

Apply this slurry on the substrate using a soft 4 - inch wide paint brush.

Apply the slurry in one direction only.

For Polymer Modified Mortar :-

Mix MCON Bond SBR in the ratio of 1:5:15 with Cement and Quartz Sand to ensure a high strength repair mortar for Structural repairs.





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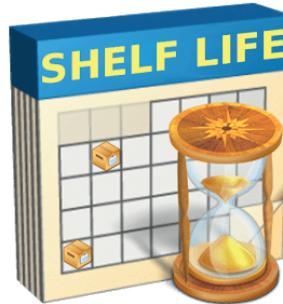
Coverage :-

1 kg BOND SBR covers 60-65 sq.ft.



Shelf & Storage :-

Store away from direct sunlight. 12 months from date of manufacture.



Health & Safety :-

MCON BOND SBR is non-toxic, non-flammable and non-hazardous. However, any splashes on any part of the human body must be washed with plenty of water.



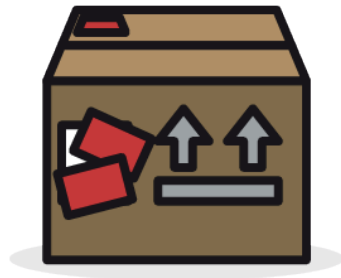


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Packing :-

1 kg, 5 kgs, 20 kgs, 50 kgs.



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MCON BOND APL

Acrylic Polymer Bonding Agent

Product Description :-

MCON BOND APL is an acrylic polymer based bonding agent from selected synthetic copolymers to meet various application needs. It provides a strong bonding coat to protect and repair RCC and steel structures.





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Areas of Application :-

- ✓ For concrete repairs - Spalled concrete of floors, columns, beams, chajja, slabs, parapets, etc.
- ✓ For waterproofing – Small roof terraces, sunken portions of toilets & bathrooms, chajja & lift pits, balconies
- ✓ As a bond coat – For bonding of new concrete to old concrete, masonry stone work, plastering fixing of slip bricks, tiles, stones & marble bedding.
- ✓ For plastering on RCC Surface without hacking as a hacking aid.
- ✓ As external rendering – Weatherproof & frost resistant render.
- ✓ As bonding slurry coat for pinhole treatment on concrete surface.

Features & Benefits :-

- ✓ Excellent adhesion to most building substrates.
- ✓ Improves flexural, tensile, and thin section fragility of cementitious systems.
- ✓ Allows breathing, thus preventing peeling and scaling.
- ✓ Gives a tough, hardwearing surface with effective waterproofing.
- ✓ Reduces chloride salt penetration in marine environment.
- ✓ Improves bond strength with steel.
- ✓ Resists water pressures up to 5 bars.
- ✓ Self-curing.
- ✓ Is non-toxic and thus can be used for coating structures storing potable water.



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Method of Application :-

Surface preparation is vital for effective adhesion and bonding of BOND APL.

To start with, free the surface from laitance, loose dust particles, oil, grease and other dirt.

Then: Weigh out 1 kg of BOND APL in a plastic container of 2 litre capacity.

Weigh out 1 kg of ordinary Portland cement from a bag of fresh cement.

Add the cement gradually to BOND APL with constant stirring.

Ensure there is no formation of lumps.

Stir constantly until all the cement has been added to BOND APL and slurry of uniform consistency is achieved.

Apply this slurry on the substrate using a soft 4 - inch wide paint brush.

Apply the slurry in one direction only.





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Technical Specification :-

Colour :	Milky white
Form :	Liquid emulsion
Application Temp :	< 50°C
Service Temp :	- 4° to + 90°
Pot Life :	30 minutes
Sp Gravity :	1.02 ± .01
Ph :	7 - 9





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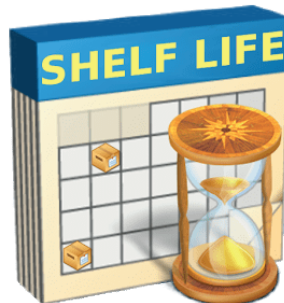
Coverage :-

1 kg BOND APL covers 80-85 sq.ft in single coat.



Shelf & Storage :-

Store away from direct sunlight. 12 months from date of manufacture.



Health & Safety :-

MCON BOND APL is non-toxic, non-flammable and non-hazardous. However, any splashes on any part of the human body must be washed with plenty of water.



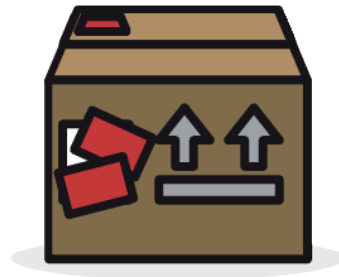


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Packing :-

1 kg, 5 kgs, 20 kgs, 200 kgs.



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MCON CRACK FILLER (Grey/White)

CEMENTITIOUS NON SHRINK
CRACK FILLER

Product Description :-

MCON CRACK FILLER (GREY/WHITE) is an easy to use, high strength, Crack Filler repair mortar, which ensures perfect filling of cracks and will not allow water penetration. It provides a strong bond with flexibility which accommodates the cracks in the plaster and provides a water resistant surface with aesthetic appearance.





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Areas of Application :-

- ✓ For filling of horizontal and vertical cracks.
- ✓ For Internal crack repairs
- ✓ For external crack repairs upto 10 mm in width
- ✓ For hair line cracks in painted surfaces that result in internal water leakage.

Features & Benefits :-

- ✓ Excellent adhesion to most building substrates when primed with MCON BOND APL.
- ✓ Allows breathing, thus preventing peeling and scaling.
- ✓ Prepacked, only addition of precise quantity of water is required.
- ✓ Dense & cohesive mortar will not allow water penetration.
- ✓ It is a dual expanding cementitious crack filling mortar which will ensure the perfect bond on both the sides of the cracks.
- ✓ Gives high strength.
- ✓ Non-metallic & chloride free.
- ✓ Ensure water tightness from treated cracks.
- ✓ Application advantage - Can be applied on damp surfaces but not on cracks with running water.
- ✓ Paint ability - Over coat-able by any type of polymer based paints, after 24 hours.
- ✓ Non toxic.



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Method of Application :-

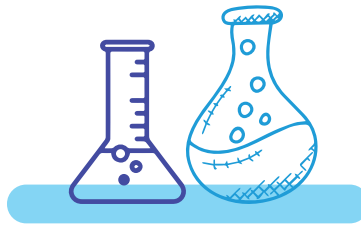
Surface preparation is vital for effective adhesion and bonding of CRACK FILLER (GREY/WHITE).

To start with, free the surface from laitance, loose dust particles, oil, grease and other dirt. Prewet the surface with water and prime with MCON BOND APL.

Press prepared paste of CRACK FILLER (Grey/White) firmly into the crack with a spatula or putty knives and level with the surface.

Care must be taken to avoid formation of cavities or bubbles during application. Allow it set for 24 hours and then apply another coat of CRACK FILLER (Grey/White).

For best results start curing CRACK FILLER (Grey/White) in 3 hours and cure it for 7 days.



Technical Specification :-

Colour :	Grey / white
Form :	Powder
Water Resistance:	Excellent
Compressive Strength:	200 kg/cm ²



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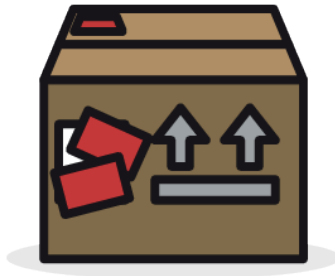
Coverage :-

1 kg CRACK FILLER (GREY/WHITE) covers 30 running feet of cracks of 5 mm.



Packing :-

1 kg, 5 kgs, 25 kgs.



Health & Safety :-

CRACK FILLER (GREY/WHITE) is non-toxic, non-flammable and non-hazardous. However, any splashes on any part of the human body must be washed with plenty of water.



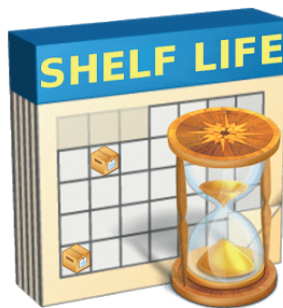


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Shelf & Storage :-

Store away from direct sunlight. 12 months from date of manufacture



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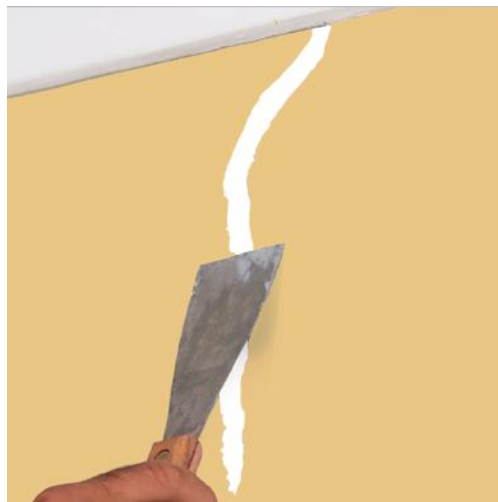


MCON CRACK FILLER PASTE

READY TO USE CRACK FILLER

Product Description :-

CRACK FILLER PASTE is an acrylic polymer based white crack filler made of acrylic emulsion polymer, properly selected graded fillers & additives. It provides a strong bond with flexibility which accommodates the cracks in the plaster and provides a water resistant surface with aesthetic appearance.





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Areas of Application :-

- ✓ For Internal crack repairs.
- ✓ For external crack repairs upto 5 mm in width.
- ✓ For hair line cracks in painted surfaces that result in internal water leakage

Features & Benefits :-

- ✓ Excellent adhesion to most building substrates.
- ✓ Allows breathing, thus preventing peeling and scaling.
- ✓ Consistency - Paste form, without sagging.
- ✓ Ease of application – Easy to apply by putty knife similar to conventional putties.
- ✓ Flexibility - Flexible, therefore does not crack & accommodates minor movements in cracks.
- ✓ Application advantage - Can be applied on damp surfaces but not on cracks with running water.
- ✓ Paint ability - Over coat-able by any type of polymer based paints, after 24 hours.
- ✓ Non toxic and can also be pigmented.



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Method of Application :-

Surface preparation is vital for effective adhesion and bonding of CRACK FILLER PASTE.

To start with, free the surface from laitance, loose dust particles, oil, grease and other dirt.

Press CRACK FILLER Paste firmly into the crack with a spatula or putty knives and level with the surface.

Care must be taken to avoid formation of cavities or bubbles during application. Allow it set for 24 hours and then apply another coat of CRACK FILLER Paste.

Further POP or painter's putty application can be taken up once it is fully dry. For best results allow CRACK FILLER Paste to cure for 7 days.



Technical Specification :-

Colour :	Milky white
Form :	Paste
Sp. Gravity:	1.50 ± .01
Consistency:	Viscous paste type
Water Resistance:	Excellent



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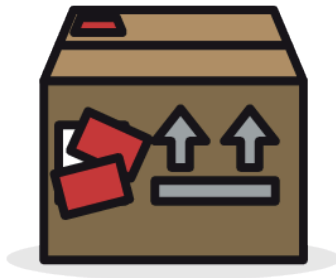
Coverage :-

1 kg CRACK FILLER PASTE covers 100 running feet of cracks of less than 5 mm.



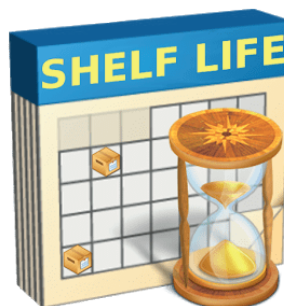
Packing :-

1 kg, 5 kgs



Shelf & Storage :-

Store away from direct sunlight. 12 months from date of manufacture.





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Health & Safety :-

CRACK FILLER PASTE is non-toxic, non-flammable and non-hazardous. However, any splashes on any part of the human body must be washed with plenty of water.



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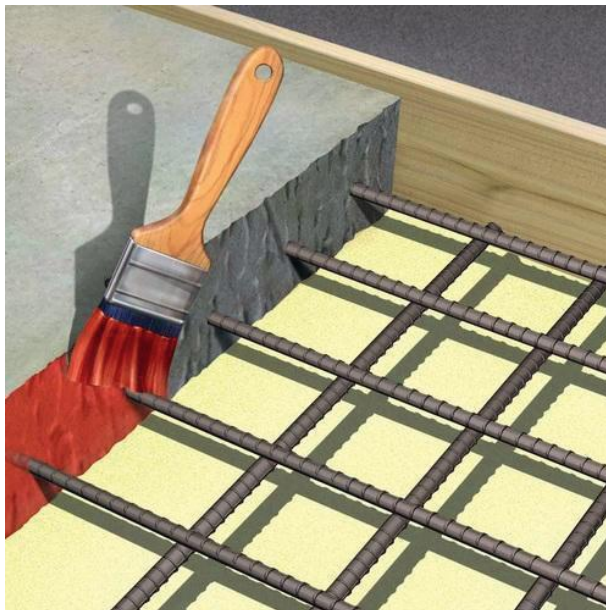


MCON BOND EP

TWO PART EPOXY BONDING
AGENT FOR STRUCTURAL
REPAIRS

Product Description :-

MCON BOND EP is a two pack solvent-free epoxy resin containing fine fillers and slow curing high strength adhesive suitable for civil engineering. It is supplied as a two part material for ready on site mixing & use.





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Features & Benefits :-

- ✓ Excellent adhesion
- ✓ Increases bond strength
- ✓ Very good chemical resistance and very less shrinkage
- ✓ Easy to apply as has a brushable consistency with longer pot life
- ✓ Cures even on damp surface
- ✓ Ensures perfect waterproof bond.
- ✓ Long workable time of almost 6 hours
- ✓ Moisture insensitive for long term durability.
- ✓ Excellent adhesion and impact resistance.
- ✓ Acts as a barrier coat to the migration of chloride ions from host concrete.





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Uses :-

- ✓ Bonding renders and screeds
- ✓ Bonding of fresh concrete to existing concrete.
- ✓ To prepare Epoxy Repair Mortar with help of Quartz sand.
- ✓ To bond together precast concrete sections.
- ✓ As a primer for any epoxy coating and screed.



Method of Application :-

Surface Preparation :-

Substrate must be sound, clean and free from laitance and all contamination viz. oils, greases etc.

Mixing :-

MCON BOND EP comprises of two components, the resin BASE and the HARDENER, which are supplied pre-weighed in the correct proportions.

When required for application, the HARDENER should be poured into the can containing the BASE and drained well.

Both the components should be thoroughly mixed, preferably using a mechanical stirrer, e.g. electric drill with stirrer attachment, until a uniform colour is obtained.



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Application :-

- (A) For bonding together concrete sections; apply an even coating of MCON Bond EP to both prepared surfaces using a brush or roller. Ensure that both surfaces are saturated and bring the sections together under light pressure. Remove any resin which extrude from the joint. Protect the job from agitation until the resin is set.
- (B) For bonding screeds; renders or fresh concrete to existing concrete surfaces ; apply an even coating of MCON Bond EP to the prepared old concrete surface using a brush, or roller. The fresh concrete or mortar should then be placed on top of the resin layer after 15 Min and within 5 Hours at 30 °C.
- (C) For Epoxy Repair Mortar – Mix quartz sand in the ratio of 4:1 to the prepared Epoxy mix. Use a slow paddle drill and mix continuously while adding the quartz sand to the mix. The gradation of quartz sand should be 8 x 16 (2 parts), 16 x 30 (1 part), 30 x 80 (1 part). The prepared mix has to be used within 30 minutes on the above prepared surface.





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Technical Specification :-

Colour	Biscuit colour
Usable Life	2 to 3 hrs at 30 °C
Cure Rate	A tack free film obtained after 3 hours at 30 °C
Cure Time	7 days
Concrete bond (Dry)	Failure of Concrete

Temperature Limitation :-

During Application :	10 to 50 °C
In service (when full cured) :	20 to 50 °C
Compressive Strength : (BS 6319:Part 2)	50 N/mm ² @ 7 days
Flexural Strength : (BS 6319:Part 3)	35 N/mm ² @ 7 days
Tensile Strength : (BS 6319:Part 7)	20 N/mm ² @ 7 days
Shear Strength : (BS 6319:Part 4)	10 N/mm ² @ 7 days



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Coverage :-

MCON BOND EP will vary depending upon the porosity & texture of the surface and the ambient temperature but as a general guide 0.3 kg per m² should be allowed.

Ratio of Base:Hardner = 1:1



Quality Assurance :-

MCON RASAYAN manufactures entire range of construction chemicals under compliance of ISO 9001, ISO (EMS) 14001 & OHSAS 18001. (Occupational Health and Safety)



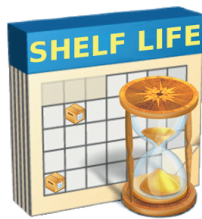


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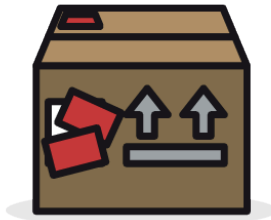
Shelf Life & Storage :-

MCON BOND EP will have a shelf life of 6 months in unopened containers when kept in dry conditions at a temperature between 5°C to 45°C. Storage at higher temperature or high humidity may reduce shelf life.



Packing :-

4 Kg.



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MCON CRACK BOND EP

**EPOXY BASED HIGH STRENGTH
STRUCTURAL CRACK REPAIRS**

Product Description :-

MCON CRACK BOND EP provides excellent chemical resistance and mechanical strength. This system commonly employed for crack filling to concrete structure. Various mineral fillers like chalk powder or silica floor can be added to get non flowable consistency for crack filling on vertical surfaces. It is an ambient cure crack filling system to repair concrete structure. MCON CRACK BOND EP is a two part system with a resin to hardener ratio of 2:1.





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Areas Of Application :-

- ✓ Structural cracks in concrete slabs
- ✓ Crack filling in beams and columns
- ✓ Precast concrete repair
- ✓ Pavement Quality concrete repair
- ✓ Pre stressed concrete repair
- ✓ Deformities in Industrial floors



Features & Benefits :-

- ✓ Faster setting time.
- ✓ Good adhesion to concrete.
- ✓ Solvent free.
- ✓ Very low shrinkage.
- ✓ Improved durability.
- ✓ Used in fast track repairs.



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Technical Specification :-

PROPERTIES	VALUES
Colour	Grey
Chemical Base	Solvent free Epoxy Resin
State	Semi Liquid
Density	$1.15 \pm 0.03 \text{ g/cm}^3$
Mixing Ratio	Hardener : Resin = 1 : 2
Pot Life	25 to 30 minutes at 25 deg.
Hardness	75 shore hardness
Water Absorption	0.5% after 24 hours immersion





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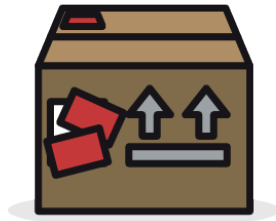
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Health & Safety :-

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, it should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the MSDS for detailed safety instructions.

Packing :-

3 kg. pack



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MCON MORTAR EP

THREE PART EPOXY REPAIR
MORTAR FOR HIGH STRENGTH
STRUCTURAL REPAIRS

Product Description :-

MCON MORTAR EP is a three part solvent free combination of epoxy resin and hardeners filled with specially graded chemically inert aggregates with high crushing strength. It is applied by trowel as a durable chemical resistant repair mortar 8 – 10 mm thick depending upon the requirement. The system includes MCON BOND EP a two part epoxy resin primer and MCON MORTAR EP which are both supplied in pre-weighed units ready for onsite mixing and application. The finished area has a slightly granular texture of uniform self colour.





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Areas Of Application :-

- ✓ Permanent repairs to concrete structure and cementitious substrates where strength, impermeability to water and resistance to aggressive chemicals is essential.
- ✓ Ideally suited for maintaining engineering, chemical handling and processing plants.
- ✓ Patch and Repair Mortars: Grouts for repairing cracks and de-lamination of concrete structures such as sidewalks, driveways, and walls.



Features & Benefits :-

- ✓ Chemical Resistance : Unaffected by wide range of acids, alkalis and industrial chemicals
- ✓ Easily applied :Designed for easy application to a fair finish.
- ✓ Quality : Pre-weighed quality controlled materials ensure consistency and reduce risk of site errors.
- ✓ Proven performance : Successful use proves for a wide variety of aggressive applications,
- ✓ High bonding strength –Suitable for overhead surfaces.
- ✓ Multi-purpose – Can be applied on horizontal, vertical and overhead surfaces without any form work
- ✓ Low permeability – Offers extremely low permeability to water carbon dioxide and chlorides



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Technical Specification :-

Curing Characteristics	30 ° C
Pot Life	40 min
Initial Hardness	24 hours
Full Cure	7 days
Mechanical Characteristics	Full cure
Compressive Strength	40 N/mm ²
Flexural Strength	12 N/mm ²
Tensile Strength	4.2 N/mm ²
Bond Strength To Concrete	3.0 N/mm ²

Alkali content : The presence of non-alkali reactive aggregates ensures its resistance to future expansive reactions and deterioration.





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Methods Of Application :-

1. SURFACE PREPARATION :

Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc.

Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits.

Apply MCON STEEL 2K for rust free bars and then apply MCON STEEL ZRP.

Saturate the substrate with water to prevent absorption of water from the mixed material.

In case of a very old concrete substrate, it should be primed by applying one coat of MCON BOND EP as Bonding Agent.

Allow the bonding agent to reach tacky condition before applying of MCON MORTAR EP.

2. MIXING :

Use Mechanical Mixer for mixing of MCON MORTAR EP.

Start addition of aggregates 80% slowly to the Epoxy mix (Base+Hardener) under continuous mixing.

Keep mixing for 2 minutes. Add balance quantity 15 – 20% aggregates & again mix for another 2-3 minutes to form a homogeneous, free flowing, uniform & lump-free mix.

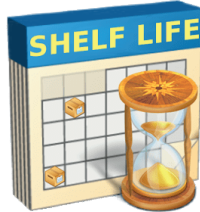


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Shelf Life & Storage :-

6 months from manufacture in original unopened bags if stored in dry conditions.



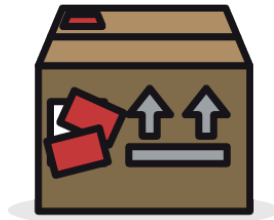
Coverage :-

16 sq. feet per pack @ thickness of 4 mm.



Packing :-

7.5 kg. pack (0.7 kg. base + 0.3kg. hardener + 6.5 kg. aggregates).



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MCON MICRO MORTAR

NON SHRINK HIGH STRENGTH
MICRO CONCRETE

Product Description :-

MCON MICRO MORTAR is a ready to use dry powder which requires only addition of clean water at site to produce a free flowing non shrink repair micro concrete. It is composed of good quality cement, properly selected aggregates & additives. It is used & designed for repairing of damaged reinforced concrete elements like columns, beams & structure where the areas are restricted or not easily accessible for proper placement of concrete using vibrator. MCON MICRO MORTAR has excellent flowability, workability & proper particle size to reach small & congested reinforcement.





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Areas of Application :-

- ✓ Repair of damaged reinforced concrete elements like beams, columns, wall, etc. where access is restricted and compaction is not possible.
- ✓ For Jacketing of RCC columns to increase load-taking capacity (strengthening of a vertical members)
- ✓ For casting high strength fast setting concrete slabs.

Features & Benefits :-

- ✓ Pumpable - Can be pumped or poured into restricted locations.
- ✓ Flowable - Flowable mortar hence does not require compaction.
- ✓ Shrinkage compensation – Controlled expansion system which compensates for shrinkage and settlement in the plastic state.
- ✓ Strength - Develops high initial and ultimate compressive strength.
- ✓ Durability - Makes repaired sections highly durable & compatible to parent concrete.
- ✓ Chloride content - Contains no chloride based additive so prevents corrosion of reinforcement.
- ✓ Early reinstatement -Rapid strength gain helps in early reinstatement & removal of shuttering.





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Method of Application :-

Surface preparation :-

Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc.

Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Apply MCON STEEL RR for rust free bars.

For Cathodic Protection, apply MCON STEEL 2K or MCON STEEL ZRP over the cleaned rebars and allow it to dry before pouring of MCON MICRO MORTAR.

Saturate the substrate with water to prevent absorption of water from the mixed material.

In case of a very old concrete substrate, it should be primed by applying one coat of MCON BOND EP – epoxy bonding agent. Allow the bonding agent to reach tacky condition before pouring of mix concrete.

Mixing :-

Use PAN Mixer for mixing of MCON MICRO MORTAR.

Charge 85-90 % of clean & potable mixing water (3.75 to 4 liters per 25 kg bag) to a PAN Mixer.

Start addition of Micro Concrete powder slowly under continuous mixing. Keep mixing for 2 minutes. Add balance quantity 15 – 20% of mixing water & again mix for another 2-3 minutes to form a homogeneous, free flowing, uniform & lump-free mix.



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Coating Application :-

Pour or pump the mixed MCON MICRO MORTAR into a watertight shuttering.

Cure the repaired concrete for minimum 7 days before removing the shuttering.

Technical Specification :-

Compressive Strength :	ASTM C 109 : 99
	15 N/mm ² at 1 day
	22 N/mm ² at 3 days
	30 N/mm ² at 7 days
	40 N/mm ² at 28 days
Expansion :	0.45 %





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Coverage :-

1.3 m² per bag at 10 mm thickness, 13 l per bag 2200 kg. per cubic meter – Fresh wet density



Precautions & Limitations :-

MCON MICRO MORTAR can applied in section upto 100 mm depth.

For thickness more than 100 mm, addition of pre-calculated aggregates may be required. Consult technical team for more details.

Strictly follow water-powder ratio as specified.

Ensure that the shuttering is 100% watertight.

Ensure full exposure of reinforced steel.



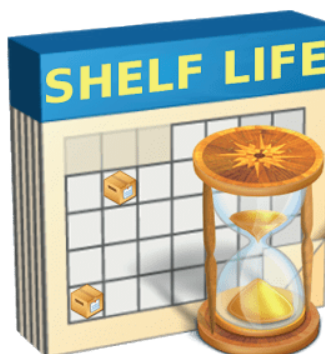


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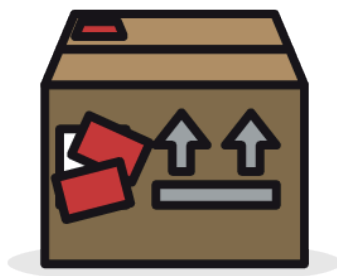
Shelf Life & Storage :-

6 months in original packing if stored at room temperature i.e.25° C



Packing :-

25 kg. bag



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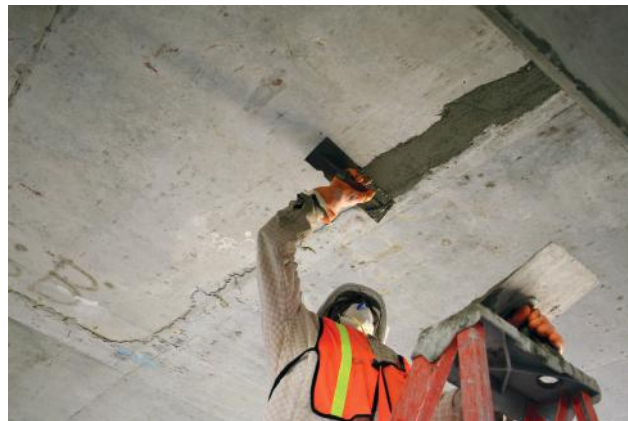


MCON POLYMER MORTAR

SINGLE PACK READY TO USE
POLYMER REPAIR MORTAR

Product Description :-

POLYMER MORTAR is a general purpose non-shrink, cementitious, trowel applied single pack repair mortar for repairs to Concrete sections and Plastered surfaces. POLYMER MORTAR is composed of good quality cement, properly selected aggregates & additives. It is used & designed for repairing of damaged reinforced concrete elements like columns, beams & structure





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Areas of Application :-

- ✓ Any General Concrete Repairs areas such as - Ceiling surfaces, Wall plaster, facade, etc.
- ✓ Concrete substrates.
- ✓ Patch and Repair Mortars: Grouts for repairing cracks and delamination of concrete structures such as sidewalks, driveways, and walls. New mortar will not stick well to old concrete without polymer modification.

Features & Benefits :-

- ✓ Ready to use Cement based Polymer mortar - No need to add sand, cement & aggregates, so saves time & energy
- ✓ High bonding strength – Suitable for overhead surfaces & can also be sprayed
- ✓ Needs to be mixed with water only – No additional dispersion liquid is necessary.
- ✓ Multi-purpose – Can be applied on horizontal, vertical and overhead surfaces without any form work and can be used along with plastic or steel fibers
- ✓ Low permeability – Offers extremely low permeability to water carbon dioxide and chlorides.
- ✓ Improved workability. Polymer modification noticeably improves application characteristics, making the mortar more fluid and easier to handle and apply.
- ✓ Improved strength and durability. Cured polymer-modified mortars generally have improved tensile strength, flexural strength, impact and abrasion resistance, water resistance, and chemical resistance versus unmodified mortars



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Method of Application :-

Surface preparation :-

Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc. Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits.

Apply MCON STEEL 2K for rust free bars.

Saturate the substrate with water to prevent absorption of water from the mixed material. In case of a very old concrete substrate, it should be primed by applying one coat of BOND APL + WATER (1:1) as Bonding Agent.

Allow the bonding agent to reach tacky condition before applying of Polymer Mortar.

Mixing :-

Use Mechanical Mixer for mixing of MCON POLYMER MORTAR.

Charge 85-90 % of clean & potable mixing water (3.75 to 4 liters per 25 kg bag) to a Mixer.

Start addition of powder slowly under continuous mixing. Keep mixing for 2 minutes. Add balance quantity 15 – 20% of mixing water & again mix for another 2-3 minutes to form a homogeneous, free flowing, uniform & lump-free mix.



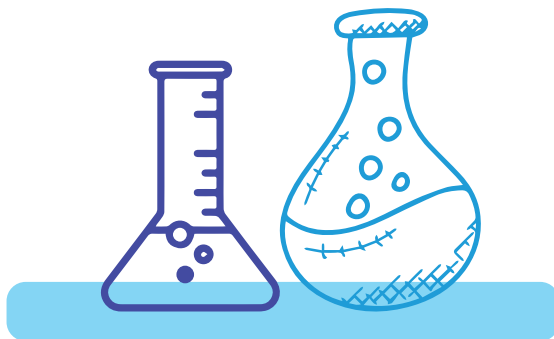


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Technical Specification :-

Nature :	Cementitious grey powder
Chloride Content :	Nil
Depth of Carbonation :	Nil
Wet Density :	2250 kg/m ³ giving a yield of 131/25 kgs bag at flowable consistency(W/P = 0.16)
Flexural Strength :	@28 days 25°C 10 N/mm ²
Compressive Strength :	@7 days 25°C 25 N/mm ²
	@28 days 25°C 50 N/mm ²
Setting Time :	At 20° C and 0.13 water to powder ratio (flow consistency)
Initial set :	6 hours 00 minutes
Final set :	8 hours 15 minutes





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Alkali content: The presence of non-alkali reactive aggregates ensures its resistance to future expansive reactions and deterioration.

Bond Strength: The typical shear bond strength at water powder ratio of 0.13 at 20° C without any bonding agent is 68 N/mm² at 28 days.

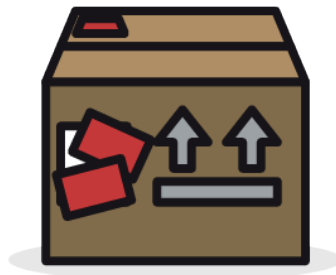
Coverage :-

1.3 m² per bag at 10 mm thickness, 13 l per bag 2200 kg. per cubic meter – Fresh wet density



Packing :-

25 kg in moisture-resistant bags.





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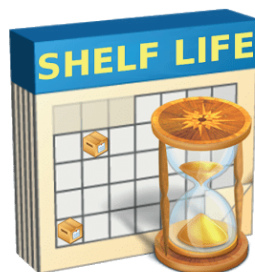
Health & Safety :-

MCON POLYMER MORTAR is a cementitious alkaline product. Care should be taken to avoid contact with eyes, skin, mouth and food stuff. Any splashes on the human body must be washed with plenty of water.



Shelf Life & Storage :-

6 months from manufacture in original unopened bags if stored in dry conditions.



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MCON BOND URP

**POLYMER LATEX FOR
REPAIRING & WATERPROOFING**

Product Description :-

MCON BOND URP is a styrene butyl rubber based bonding agent from selected synthetic copolymers for structural repairs. It provides a strong bonding coat to protect and repair RCC and steel structures.





MCON RASAYAN PVT. LTD.

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Areas of Application :-

- ✓ For concrete repairs - Spalled concrete of floors, columns, beams, chajja, slabs, parapets, etc.
- ✓ As a bond coat – For bonding of new concrete to old concrete, masonry stone work, plastering.
- ✓ As bonding slurry coat for pinhole treatment on concrete surface.

Features & Benefits :-

- ✓ Excellent adhesion to most building substrates.
- ✓ Improves flexural, tensile, and thin section fragility of cementitious systems.
- ✓ Improves bond strength with steel.
- ✓ Resists water pressures up to 5 bars. ✓ Self-curing.

Technical Specification :-

Base :	Synthetic Latex
Color :	White Liquid
Mix Proportion for waterproof coating :	Cement : Mcon Bond URP 1.25 kg : 1 kg
Coverage :	5-6 Sq mt./kg per coat on ideal surface
Mix Proportion for bonding :	Cement : Mcon Bond URP 1.0 kg : 1.0 kg
Coverage :	3-4 Sq mt./kg mix
Conforms to :	IS-3085, DIN 1048



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Method of Application :-

For Bond Coat :-

Surface preparation is vital for effective adhesion and bonding of BOND URP.

To start with, free the surface from laitance, loose dust particles, oil, grease and other dirt.

Then: Weigh out 1 kg of BOND URP in a plastic container of 2 litre capacity.

Weigh out 1 kg of ordinary Portland cement from a bag of fresh cement.

Add the cement gradually to BOND URP with constant stirring.

Ensure there is no formation of lumps.

Stir constantly until all the cement has been added to BOND URP and slurry of uniform consistency is achieved.

Apply this slurry on the substrate using a soft 4 - inch wide paint brush.

Apply the slurry in one direction only.

For Polymer Modified Mortar :-

Mix MCON Bond URP in the ratio of 1:5:15 with Cement and Quartz Sand to ensure a high strength repair mortar for Structural repairs.





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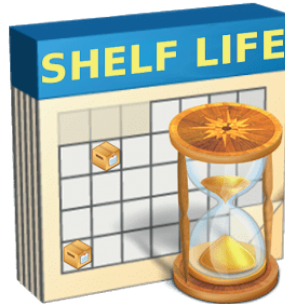
Coverage :-

1 kg BOND URP covers 60-65 sq.ft.



Shelf & Storage :-

Store away from direct sunlight. 12 months from date of manufacture.



Health & Safety :-

MCON BOND URP is non-toxic, non-flammable and non-hazardous. However, any splashes on any part of the human body must be washed with plenty of water.



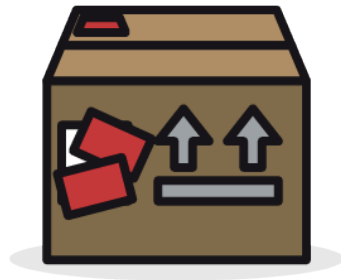


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Packing :-

1 kg, 5 kgs, 20 kgs, 50 kgs.



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