

RENDERCON® 'Super-Eco' – Additive for cement mortar. Imparts Waterproofing, High strength, Curing compensation, Scratch Resistance, Crack Resistance and Shrinkage Control. Works with high-fine crushed sand also. For brick-binding, plastering, tile mortar bed.

APPLICATIONS

Brick Binding Mortar



- Very High Crack Resistance
- Near Zero Shrinkage
- Resists dampness
- Improves Comp. Strength
- Improves Bond Strength
- Provides water-proofing
- Works even with high fines
- Suits ceiling plaster also
- Internal & External plastering

Plastering

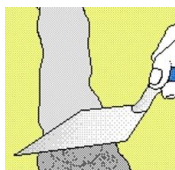


Tile Mortar Bed



- For both floors & walls
- Near Zero Shrinkage
- Resists hollowness
- Resists dampness

Repair Mortar



- ✓ Crack Repair
- ✓ All other repair mortar
- ✓ Integral Water-proofing

Any other application, where mortar is used and requires betterment in all properties of the mortar.

RenderCon manufactures products exclusively for cement mortar. There are other products as well for cement mortar with enhanced properties. For details, please see our website.

BENEFITS

Curing Compensator



Mitigate any defects due to irregular curing.

Cure for 3 days / 5 days for internal / external applications.

Crack Free Walls & Defect Free Tiles



Increases strength and bonds better to the substrate.

Resists cracks, spalling in walls and hollowness in tiles.

River Sand Eliminator



Promotes use of Crushed Sand. 150 microns passing up to 40% can be used in all applications.

River sand may also be used, provided it is free from clay.

Waterproofing



Reduces mix water and there by reduction in w/c ratio.

Resists dampness in walls and tiles.

Strength



Improves compressive strength and bond strength with the substrate.

MIX PREPARATION (common for all applications)

Liquid Additive per bag of Cement



RenderCon 'Super -Eco' liquid is supplied in sachets of 220gm.

One Sachet has to be used along with one bag of cement.

Dry Mixing (Cement + Sand)



Mix cement and sand as received. Mix it until it is homogenous.

Add Liquid Pack to Mix Water



Pour contents of Super-Eco into the mix water. Rinse the sachet well to empty all its constituents.

Mix the wet mortar well in one go

Ensure the whole mortar is mixed in go. All the mortar shall be homogenous in color to ensure that the additive is uniformly dispersed well into the mortar.

Increase mix time with the masons by 5-10 mins every time mix is made.

Mechanical Mixers may be used in case required.

The requirement of water in the mix will be a little lower when RenderCon Super-Eco is used.

BENEFITS

Safe for Use



No safety hazard to masons, unlike masonry fibers, which usually pose cut hazard.

Use Local Cement and Crushed Sand



Use OPC / PPC cements of any brand. Use locally abundantly available crushed sand. 150 microns passing up to 40% is allowed.

Dosage



Use 1 Sachet for every bag of cement (50 Kg).

Use a full sachet even if cement quantity is less than 50 Kg.

Mason Friendly



Use 1 Sachet every time a mix is made of 1 bag of cement or less.

Usually mixed manually or alternately with mixers.

Reduces rebound of mortar while application.

Mix Ratios (Cement : Sand)

1:4

1:5

1:6

Brick Binding: 1:6

Plastering: 1:4 to 1:5

Tiling: 1:4

All Repairs: 1:4

Policing Required



Supervise the mixing, at least till first few months. Emphasize importance of mixing with masons to avoid defects.

APPLICATION (BRICK BINDING & PLASTERING)

No special procedures needed; however here are some tips:

Brick Binding Mortar



Mix mortar quantity that can be consumed in 4 hrs.

Even if cement less than 50Kg is used, use 1 full sachet of Super-Eco.

DOs & DON'Ts

Consume in Time



Mix 1 cement Bag mortar once. Many cement bags mixed at once will cause non-uniform mixing of additive. Consume mixed mortar in 4 hrs.

Plastering



Can be applied manually or spray applied. Keep mix semi-dry (just wet) to avoid creep (slippage) cracks in manual application.

Re-temper by water



Water may be added into the mixed mortar to improve workability.

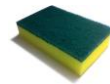
To improve surface finish, mix more water in the remaining mix and apply on the top surface. Essential when sand is grainy.

Junctions, Electrical Conduits etc.



Use scrimming with mesh (8" preferred) for change in backgrounds (Ex: Beam-column-wall junctions). Use mortar prepared with 'Super' for fixing such mesh. Alternate techniques to address this may also be used.

Sponge / Float / Broom finish



Depending on preference, use sponge / float / broom for final finish.



Seal Electrical Conduits, gaps in bricks etc with the same mortar prepared.

In both above cases, leave a time interval of 3 days before plastering.

Apply up to 40mm in Single Coat



For best results, apply all your plaster in single coat. Multiple thin coats will have higher shrinkage. Never use any coat less than 10mm thick.

Adjust Suction Before Plastering



Masonry: Use spatter-dash (Cement + water slurry).

Concrete: Hack the surface well. Use spatter-dash or dash dry cement on the concrete surface to improve suction and bonding. Alternately, bonding agents may be used.



There are no special procedures required when using 'Super-Eco'.

The practices that are accepted by the industry standards, may all be used with 'Super-Eco'. For specific questions, please contact us.

FLOOR TILES / WALL TILES

Mix 2 bags max in a batch for Tile Bed



Not mix more than 2 bags in a single batch. 1 Sachet per 2 bags cement may be used here. Mix thoroughly and keep the mix wet (not semi-dry like plastering). Do not mix many batches together. .

Work Water Sheen on top of bed



When compacted, the mortar bed has to show up shine (slight water sheen).

Thick Cement Water Slurry



Slurry to pour above the tile bed to stick the tiles shall be thick enough but flowing. Use 1 sachet 'Super-Eco' for 1 bag of cement (50Kg).

Add more loose cement to make it thicker. Stir it well before drawing for each use.



Stick tiles and complete tiling in less than 4 hours of mixing tile bed mortar.

REPAIRS

Do not follow the pattern of the Crack



Do not chip cracked surface following the pattern of the crack.

Instead chip-off as a rectangle to fill it better.

Many Cracks in the wall - Replaster



If the surface has crazed heavily or has multiple cracks / defects, it is better to replaster it.

Follow the same procedure for plastering as described in previous section.

Dampness



If 'Super-Eco' is used in all mortar along with best construction practices during construction, dampness can be eliminated.

For specific details on addressing repairs, please contact us.

AVENUES FOR SAVING COSTS USING RENDERCON 'SUPER-ECO'



Use crushed sand of your choice. RenderCon permits 150 microns passing up to 40%.



Avoid Repairs and Reworks. Mortar unless treated well, costs heavily for repair.

The information given is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification. Since the conditions of use are beyond our control, we do not warrant the results to be obtained.