



HAPPY  
NEW  
YEAR

2016

## Things to be kept in mind while constructing building in coastal areas

(Continuation from November 2015 edition)

### F) Masonry walls :

Building on stilts all external walls or wall panels must be designed to resist the out of plane wind pressures adequately. The lateral load due to wind is finally resisted either by all walls lying parallel to the lateral force direction (by shear wall action) or by RC frames to which the panel walls must be fixed using appropriate reinforcement such as 'seismic' bands at window sill and lintel level.

**G) Strengthening of walls against high winds/cyclones:** For high winds in cyclone prone areas it is found necessary to reinforce the walls by means of reinforced concrete bands and vertical reinforcing bars as for earthquake resistance.

**H) Roofs :** Depending upon the construction material used and the geometrical aspects, the roofs can be broadly classified into two main types:

**a. Flat roofs of various types:** In view of large uplift forces, particularly if wind speed could exceed 55 m/s, the total roof weight should preferably be kept about 375 kg/m<sup>2</sup>. Lighter roofs should be designed for net hogging forces and properly held down to supporting beams/walls, etc. Use of Ferro-Cement (FC) as Roofing Material Ferro-Cement (FC) has the advantages of reduced dead weight compared to an RC roof, as well as better corrosion resistance. This new material could be used for flat or sloping roofs provided that the ferro-cement sheets are adequately anchored to the supporting walls/beams against the wind-uplift forces.

**b. Pitched roofs with various covering materials:** The main load bearing structural members are timber or steel trusses, purlins, and bracings. The cladding may be of GI or AC sheeting, tiles, timber planks, thatch or prefabricated concrete elements. It will be safer to use sheeting or tiles with adequate fixtures.

**c. Roof Covering :** As stated before the corners and roof edges are zones of higher local wind suction and the connections of cladding/sheeting to the truss need to be designed for the increased forces. Failure at any one of these locations could lead progressively to complete roof failure. The following precautions are recommended.

**d. Sheeted roofs:** A reduced spacing of bolts, 3/4 of that admissible as per IS : 800, is recommended. For normal connections, J bolts may be used but for cyclone resistant connections U-bolts are recommended. Alternatively a strap may be used at least along the edges to fix the cladding with the purlins to avoid punching through the sheet. Properly connected M.S. flat can be used as reinforcing band in high suction zones.

**e. Clay tile roofs:** Because of lower dead weight, these may be unable to resist the uplifting force and thus experience heavy damage, particularly during cyclones. Anchoring of roof tiles into R.C. strap beams is recommended for improved cyclone resistance. As alternative to the bands, a cement mortar screed, reinforced with galvanised chicken mesh, may be laid over the entire tiled roof.

**f. Thatch roof:** Thatched roof should be properly tied down to wooden framing underneath by using organic or nylon ropes in diagonal pattern. The spacing of rope should be kept 450 mm or less so as to hold down the thatch length. For connecting the wooden members, use of non-corrodible fixtures should be made. If non-metallic elements are used, these may need frequent replacement. After a cyclone warning is received, all the lighter roofs should preferably be held down by a rope net and properly anchored to ground.

So, spending our one and only life in the bank of the river or in front of a sea is like spending our life in heaven. By taking the above mentioned precautions or by keeping the above mentioned accepts in mind while constructing the building can make us feel more secured & happy.

**PRODUCT DESCRIPTION :** ACEPLAST Roof Plaster is a highly polymer modified dry mix cement plaster or render specially designed to do thin plastering on cement or any kind of dry sheet roofs/ceilings. It is manufactured with carefully selected premium cement, graded aggregates and chemical additives and is designed to use for internal and external application. Once applied, this becomes an ideal substrate for paint, wall putty or other decorative plasters.



#### ADVANTAGES :

- Special grade, excellent bonding.
- Premixed plaster, just mix with water at site.
- Excellent quality, easy to fix
- Suitable for both interior and exterior application.
- Excellent handling characteristics, very good consistency

**APPLICATIONS :** For Interior and exterior application

**AVAILABLE PACK SIZE :** Available in 30 kg bags in grey colour

**SHELF LIFE :** 12 months if stored in cool and dry area in unopened bag. Shelf life is calculated from the month of manufacturing of the product.

**STORAGE AND HANDLING:** Store in cool and dry area in unopened original bag.

**SURFACE PREPARATION:** Surfaces must be structurally strong. Remove all grease, oil, dirt, curing compounds, sealers or any other contaminant that would prevent good bonding. Glossy, lime washed or painted surfaces must be sanded, or abraded, and stripped off all contaminants. Concrete roof must be free of efflorescence. Expansion joints should never be bridged with plaster material. Surface temperature should be maintained above 10° C or below 38° C to achieve proper bonding. For questions about proper installation, call Technical Services executives on +91 963 260 5577.

**MIXING PROCEDURE :** Use required amount of water or Acemix

TBL latex admix for 30 kg powder. Take liquid in a big clean pail and pour powder slowly to the pail under slow mixing. Mix by hand or use a low speed drill mixer (150 – 200 rpm speed) to achieve a smooth, paste-like consistency. Let the homogeneously mixed plastering material slake or stand 5 -10 minutes, stir again and use. Stir occasionally, but do not add more water.

**APPLICATION PROCEDURE:** Apply mixed mortar on ceiling/roof where plastering to be done. Press them with flat trowel or float to get firm contact and level it. Achieve required thickness by multiple applications. Smoothing can be done after 45 minutes of application by sprinkling clean water and trowelling with smooth flat trowel.

**COVERAGE:** Coverage will vary depending on site condition, surface undulation and application variances. 30 kg bag will cover approximately 90 sft for 3 mm thickness

**CURING:** Curing time is affected by ambient, surface temperatures and humidity. Generally, product is designed for self curing.

**CAUTION:** Store in cool and dry place. High humidity or moisture will affect the product. Once bag is opened, then finish it off without keeping for long time. This product contains Portland cement and free silica. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. Do not breathe dust; wear PPE whenever necessary

**EASY MAINTENANCE :** Properly installed product requires no special maintenance.

**WARRANTY :** Acecrete Adhesions India Private Limited warrants to the original purchaser that its product shall be free from defects in material for a period of one year from the manufacturing of the product. Our sole liability under this warranty shall be limited to the replacement of our purchased product if proved defective under normal handling as stated in the TDS. This warranty will not extend to any other product or items which were handled along with our product. This warranty or any other legal issues or claims are subject to Mangalore jurisdiction only.

**CUSTOMER SERVICE :** For any query related to product availability, cost, coverage, applicators, installation instructions, problems and trouble shooting, contact customer service executive on our 24 X 7 customer help line +91 963 260 5577 or write email to [customercare@acebond.in](mailto:customercare@acebond.in)

For product or other information, please write us to

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## MAGIC IN SELF CONFIDENCE

A Businessman was deep in debt and could not see any way out. Creditors were closing in on him. Suppliers were demanding payment. He sat on the park bench, head in hands wondering if anything could

save his company from bankruptcy. Suddenly an old man appeared before him.

"I can see that something troubling you". He said After listening to the businessman's woes, the old man said, "I believe I can help you".

He asked the man his name, wrote out a cheque and pushed it into his hand saying, "take this money, meet

me here exactly one year from today and you can pay me back at that time". Then he turned and disappeared as quickly as he had come. The businessman saw in his hand a cheque for \$ 500,000 signed by John D. Rockefeller, then one of the richest men in the world! "I can erase my money worries in an instant!" he realized. But instead, the businessman decided to put the uncashed cheque in his safe knowing that it might give him the strength to work out a way to save his business, he thought. With renewed optimism, he negotiated better deals, restructured his business

and worked rigorously with full zeal and enthusiasm and completed several big deals. Within few months, he was out of debt and making money once again. Exactly one year later he returned to the park with the uncashed cheque. At the agreed upon time, the old man appeared. But just as the businessman was about to hand him back the cheque and share his success story, a nurse came running up and grabbed the old man. "I'm so glad I caught him!" she cried." I hope he hasn't been bothering you. He's always escaping from the rest home and telling people he's John D Rockefeller" and she let the old man away by the arm.

The astonished businessman just stood there, stunned. All year long he'd been wheeling and dealing buying and selling, convinced he had half a million dollars behind him. Suddenly, he realized that it wasn't the money, real or imagined that had turned his life around. It was his newfound self-confidence that gave him the power to achieve anything he went after.



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Awaiting your response.

Editor





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