



RAZON ENGINEERING COMPANY PRIVATE LIMITED

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AN ISO 9001-2008 COMPANY **B.M. - 4**

Cement Concrete blocks are made using about 10% - 12% cement, fly ash, sand, dust, 1", ½ ", ¼ " khadi or grit mixed to form cement mortar. The blocks are compacted manually or mechanically.

Due to greater demand during masonry work the blocks hardly gets 5-6 days curing. Generally 28 to 55 blocks of 6 x 8 x 12 are made per batch. Breakage of even 3-4 blocks means a loss of 10% - 12%.

Due to high silt /mud in sand, block breakages is high and block quality is poor.

In absence of insufficient curing, adequate strength is not developed which may aggravate seepage in case of walls facing wind & rain.

All these difficulties can be overcome by using our BM 4 following advantages are available.

- 1 BM 4 is an accelerator cum plasticizer. It ensures early high strength, hence minimizes breakages. The block edges do not break. Very fine finish blocks are obtained.
2. BM 4 ensures blocks that are cast are compact and dense. It imparts waterproofing features and exhibits very high impermeability coefficient.
- 3 Addition of 200 ml BM 4 per batch not only gives early high strength but also yields high ultimate strength. Hence saving in cement up to 10% -15% is feasible. 5-10 blocks can be cast more per batch without affecting physical properties of blocks.
- 4 Cost of addition of BM 4 is completely compensated by saving in cement, plus reduced breakages, plus additional 5-10 blocks. It reduces the cost per block considerably.
- 5 Use of BM 4 reduces sensitivity of blocks and mortar to presence of silt/mud in sand, hence inspite of high silt/dust; firm, strong blocks can be manufactured.
- 6 Upto a maximum of 30 - 40% fly ash may be used to impart improved finish & impermeability features to the blocks.

METHOD OF USE

Mix cement and aggregates as usual, add 200 ml BM 4 in gauging water and add this to mortar coat blocks as usual.

Recommended proportion of cement & aggregates in percentage.

Cement	Metal	Grit	River sand or Crush sand	Stone dust	Fly ash	BM 4
4-9	35-40	10-20	35-40	10-15	10-10	200 ml

Packing: Material is available in 35 lt, 50 lt.

No	PRODUCT DATA	
1	Colour	Amber Coloured Liquid
2	Specific Gravity	1.2
3	pH	7-8
4	Dosage	200 ml per 50 kgs cement
5	Packing	35lt, 50lt cans
6	Storage/life	1-2 yrs when stored away from sunlight in a sealed container.
7	Toxicity	Nil
8	Corrosion	Nil
9	Test Report	Available

OTHER PRODUCTS

Coatings: Rubberised Instant Waterproof Coating • White Water Proofer • Polyurethane Coating - GHF 111 • Triple Layer Polyurethane Waterproof/ Thermal Coating • Primer Coat PU SG 104 • Top Coat PU ALK – 104 • Silver Coat PU 104 • Clear PU Lacquer (gloss) • Clear PU Lacquer (matt) • Coal Tar Epoxy CTE – 110 • Coal Tar Epoxy EP-10 • Epoxy Coating EC-111 • Primer Epoxy Coating PR 111 • Silver Coating SC 203 • Epoxy Floor Coating G-78 AND M-86 • Damp Proofer • Bitumenous Japan Paint 151 • Supreme Waterproof Cement Paint ARCem –101 • Premium Waterproof Cement Paint ARCem –119 • Royal Waterproof Cement Paint ARCem 1100 • Green Chromo Oxide Epoxy Epoxy Primer •

Sealants : Crack Seal • Rubberised Sealer • Instaset 600 • Instaset 2000 • Instaset 2000S

Admixture: SPRMC 808 S11 B • Super Plasticizer –IWSP (M) – 101 • Super Plasticizer –IWSP (N) – 103 • Accelerator –2080 • Integral Water Proofer • IWSP –102 • I.W.P. Powder • Intrair (A.E.A) 120N • Master Plaster MP CS 101 • Block Maker BM-10 • Rapid Grout RG –117 • Tile Master TM – 1 • Anchorex 428 • Floor Hardner • Hycrete Rg – 608 • Brick Master • Super Paver • Pipe Master • Toughcrete P109 • Gunning Admixture GS-942 • Non Shrink Grout Admixture NSG A-11

Other Products : Tile Fix # 1 • Tile Fix # 1A • Tile Fix SP # 1 • Strextra NSG 110 •

Strextra - NSG 2024 • Easy Grout • Water Repellent WBWR – 2023 •

Water Repellent SBWR – 5000 • Shutter Coat for Wood & Metal •

Concrete Cure Coating – 111 • Concrete Cure Coating – 103 •

P.A. Bound • P.A. Mortar TH – 4 • PA. Mortar EF – 1 • P.A. Mortar

Slurry • Marble Fix • Floor Repair Mortar • Insta Plugging Mortar •

Pipe Joint Sealer • Tile Joint Sealer [Colour] – Red, White, Black,

Brown, Ivory, Green, Grey, Pink. • Metal Protect • RZ – Polymer

ED Mortar • Special Grouting System • Anti Hack Paint (XRG) •

Tuffar • ADMGP – 1 • P A – Resin 651XXX • Hak Safe AL 111 •

Paint Remover PR – 128 • COLGROUT Admixture CG – 101S •

Rock Splitting Grout ATC-A201 • Ready Plaster • Best Plaster Putty



It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable