



RAZON ENGINEERING COMPANY PRIVATE LIMITED

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AN ISO 9001-2008 COMPANY INTEGRAL WATER PROOFER

Cement requires 15% - 20% moisture for its complete hydration. Generally water cement ratio of more than 0.5 are used. The excess water has deleterious effect. Bleeding and segregation effect concrete strength adversely.

Integral Water Proofer increases workability at reduced water cement ratio hence suppressing bleeding and segregation and its adverse effects.

Generally concrete is allowed to stand for 12-24 hours before it is water cured. In this time the surface region of concrete is totally depleted of moisture and develops network of cracks. Subsequently due to cyclic daily temperature changes these crevices extend up to other crevices or voids where release of stress stabilizes crack progress. This leads to continuous network of crevices and cavities, which reduces impermeability and strength of concrete. This concrete will exhibit leakage and will not be waterproof.

Integral Water Proofer ensures that loss of moisture in the surface region is restricted in the initial 12-24 hours, hence suppressing crack formation. As the hydration of cement progresses, its strength develops. After attainment of sufficient strength chances of crevices formation is eliminated. Due to absence of cracks and inter connected voids, the concrete treated with Integral Water Proofer will exhibit higher impermeability to water and hence will be completely waterproof. Due entrained air, plugging of capillary pores ensures concrete impermeability, also concrete exhibits higher strength; hence considerable saving in cement is possible.

Integral Water Proofer is honey coloured liquid which enhances concrete quality, improves cohesiveness, workability, and imparts high wetting characteristics hence eliminating segregation completely in thin & high lintels for basements & swimming pools, water tanks etc.

Mix cement and aggregates as usual. Add water keeping back five litres of water. To this water mix 150 – 200 ml Integral Water Proofer and add it to the mortar/ concrete. Mix thoroughly. Dosage of 150 ml- 200 ml is most effective.

Integral Water Proofer can be used for casting all kinds of concrete. It can be used for beams, columns, slabs, swimming pools, basements, aqueducts, storage bunkers. It is also found most successful for external plaster.

Presence of slit / mud in sand reduces concrete strength. Use of Integral water proffer ensures, against loss of strength, due to high silt/ mud in sand. Better cube strength consistency is observed if Integral Water Proofer is used.

No	I.W.P per bag cement	W/C	Cement	Slump	Impermeability Co-efficient	28 days strength
1	Nil	0.50	14%	15 – 25 mm	1.1 X 10 ⁻⁷	26 N/mm sq.
2	150 – 200 ml	0.45	10%	50 – 75 mm	4.5 X 10 ⁻¹²	35 N/mm sq.

NO	PRODUCT – DATA	
1	Colour	Honey, Amber coloured
2	Specific gravity	1.25
3	pH	7 – 8
4	Dosage	150 – 200 or more if required
5	Packing	35 ltr, 50 ltr, 200 ltr
6	Storage/ life	1 –2 yrs if stored in cool dry place away from sunlight.
7	Sulphates/ chlorides	Less than 0.001%
8	Cement compatibility	OPC & PPC
9	Test Report	Available IS -2645

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 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 RJ – 608 • Brick Master • Super Paver • Pipe Master • Toughcrete P109 • Gunninging 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