



## **RAZON ENGINEERING COMPANY PRIVATE LIMITED**

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### **AN ISO 9001-2008 COMPANY COLGROUT ADMIXTURE CG-101S**

In Colgrout, cement, synthetic sand and water is used. Colloidal solution is made by high speed stirring and this colloidal solution is pressure grouted in cavities of stacked metal. In using Colgrout, following disadvantages are generally observed:-

- (1) The impellers of stirrer wear rapidly and with time the colloidal quality of Colgrout suffers.
- (2) The water cement ratio is in the range of around 0.8 - 0.9, the high water cement ratio is supposed to give high fluidity to Colgrout, but accompanying disadvantages are very high setting time. During this period the water slurry system moves down by gravity yielding high segregation and in some instances complete separation of cement and sand.
- (3) During pressure grouting in many instances water slurry which is capable of travelling faster moves ahead leaving behind dry mix. Hence aggravating segregation problem.
- (4) The cohesiveness is merely due to high impeller rotation, uniform distribution of cement particle in matrix which is easily disturbed during pressure grouting and high setting time.
- (5) Since the water cement ratio is high of the order of 0.85 and the aggregate size is small the shrinkage is high.

Colgrout Admixture CG-101S is specially formulated for Colgrout application. It ensures cohesiveness in Colgrout, eliminates separation, reduces setting time of Colgrout, arresting further separation and segregation. The polymer nature of Colgrout ensures uniform cement distribution in matrix.

Following physical attributes of CG-101S ensure its value as Colgrout additive:-

- (1) High cube strength.
- (2) High flow meter reading.
- (3) High ultimate strength in absence of curing.
- (4) Reduction in setting time by 15-20% reduces the segregation and separation of cement and sand.
- (5) Very high improvement in cohesiveness of the colgrout.
- (6) The impermeability of the Colgrout is enhanced so also the impermeability characteristics of the entire matrix is enhanced considerably.

- (7) Anti-washout properties ensures water & solid particles move at same rate under pressure grouting.
- (8) Colgrout Admixture CG 101S reduces shrinkage, hence enhancing Colgrout masonry quality.
- (9) In impeller slurry the colloidal solution obtained is easily disrupted due to high water content & long setting time. Using CG-101S the colloidal solution is not disrupted since the uniform cement distribution is due to chemical action, which is not effected with water content, and setting time ensuring optimum cohesiveness and uniformity.

Higher ultimate strength makes possible large cement savings & improved Colgrout cost/economy.

Use CG-101S 200 ml per bag of cement, reduce cement by 15-20%, reduce water by 5-10%, Use this Colgrout as usual.

## **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