



RAZON

Additive for waterproofing in Manufactured Sand, Crushed Stone Sand or River sand



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IWP CS 63

(High Performance Additive in powder form for waterproofing, concreting, masonry & other cementitious mortars in Manufactured sand, Crushed Stone Sand or River sand)

IWP CS 63 is a highly efficient waterproofing, concreting, masonry & other cement mortar admixture. It is a high performance polymer combining powerful plasticizer, powerful waterproofing ingredient, powerful binder & anchoring agent.

Features

IWP CS 63 ensures

- Workable & Easy trowel-able mortar at low water cement ratios
- Imparts cohesiveness to the mortar
- Ensures a dense matrix
- Improves strengths
- Provides very high water impermeability
- Eliminates formation of water capillaries
- Prevents crack formations

Areas of Application

Waterproof mortars using m-sand, crushed stone sand and river sand for:-

- Waterproofing of terraces, bathrooms, balconies
- Terrace Gardens
- Brick Bat Coba
- Concreting of water retaining structures
- IPCC
- Under ground & Over head Water tanks

- Swimming pools
- Aqua Ducts
- And Waterproof screeds

Due to angularity of M-Sand & crushed stone sand grains, higher interlocking strength and no crack mortar is feasible when IWP CS 63 is added to mortar.

Advantages

Addition of IWP CS 63 in Crushed stone sand, M-sand or river sand cementitious mortars ensures following advantages:-

1. Easy trowel-ability and workability at low water cement ratios
2. Imparts waterproof properties & Increases strength mortar
3. Early setting, after open time, hence sufficient strength developed to counter stress leading to crack formation in the initial critical period of 24 hours.
4. Mortar may be mixed manually or mechanically.
5. Ensures sound seamless hydration, ensuring highest strength and highest toughness in mortar. Regular water curing cycle of 10-14 days is essential.
6. Eliminates the need to re-fluidize the mortar with water.

Standards

IWP CS 63 confirms to IS 2645:2003

Method of Use

Thoroughly dry mix cement, sand, aggregates & IWP CS 63. Add water gradually to this mix to achieve workable mortar at low water cement ratio. Thereafter, wet mix thoroughly to achieve

a homogenous mortar. Use this mortar as usual. When using crushed stone sand for surface finishing avoid using wooden trowel. Working with smooth surface metallic (aluminum section) trowels yield best results. Water cure cementitious mortars for at least 10 to 14 days as usual.

Dosage

Dosage addition of IWP CS 63 may vary depending on nature of sand, Type of cement, ambient temperature and nature of application

Sand	IWP CS 63 dosage per 50kg bag of cement
River Sand	2.5 kg for best results
M-Sand or Crushed Stone Sand	5 kg for best results
Washed Sand or Processed Sand	5 kg for best results

Performance

The following results were obtained in a 1:4 Cement & M-Sand mortar using 5 kg IWP CS 63

S/n	Particulars	Test Method	Result
1.	3 Days Compressive Strength	BS 6319 Pt 2	7.27 N/mm ²
2.	28 Days Compressive Strength	BS 6319 Pt 2	19.86 N/mm ²
3.	Water Penetration @ 3 bar for 24 hours	DIN 1048	0 mm penetration
4.	Water Penetration @ 7 bar for 24 hours	DIN 1048	0 mm penetration
5.	Pull Out Tensile Adhesion Strength	ASTM D4541	>1 N/mm ²

Product Data

S/n	Product Data	
1.	Colour	Grey colour powder
2.	pH	pH of 50% suspension 6 - 10
3.	Packing	20 kg bag, 1MT jumbo bags on request.
4.	Storage – Shelf Life	1 year, store in cool & dry place. Away from direct sunlight.
5.	Toxicity & Corrosion	Nil. Neither initiates nor promotes corrosion of steel.
6.	Cement Compatibility	OPC, PPC, PSC.

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. All Razon datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.



Manufacturer



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