

THE RIGHT ADDITIVE FOR PERFECT PLASTER

MASTER PLASTER MPCS-102



RAZON



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MASTER PLASTER MPC5-102

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

Master Plaster MPC5-102 is a highly efficient Plaster, Masonry & Cement Mortar admixture. It is a polymer combining powerful plasticizer, powerful waterproofing ingredient, powerful binder, anchoring agent and a very powerful hygroscopic component.

Areas of Application

M-Sand, Crushed stone sand is commonly used for concreting but never used for plastering & brick masonry. Master Plaster MPC5-102 is compatible with Crush stone sand, m-sand, natural sand based plaster, masonry & other cementitious mortars.

Its use is approved & consumed by numerous Government departments for application in plaster, masonry and other cementitious mortars. Its use is ideal for application in

- Internal, External & Ceiling plasters of High Rise Structures & Buildings
- Masonry Mortars
- Cement punning on plaster
- Plastering water tanks, water retaining walls

M-Sand, Crushed stone sand exhibit very high rebound; it is very difficult to work with particularly for plastering. However, it is very easily available and economical.

Adding Master Plaster MPC5-102; 200 ml-800 ml per bag of cement, crushed stone sand, M-Sand can be easily used for plastering, It exhibits excellent finish.

Due to angularity of M-Sand & crushed stone sand grains, higher interlocking strength and no crack plaster is feasible when Master Plaster MPC5-102 is added to mortar.

Hygroscopic constitute in Master Plaster MPC5-102 ensures that sufficient moisture is available for seamless cement hydration, for initial period as well as immediately after plastering hence permitting complete and sound hydration of cement mortar, leading to firm, tough, waterproof plaster. Hence no shrinkage cracks are seen after initial 24 hours, which generally appear due to very rapid moisture loss.

Advantages

Addition of Master Plaster MPC5-102 in Crushed stone sand or M-sand plaster mortar ensures following advantages:-

1. Improved anchoring properties.
2. Throw back material reduces, hence improved economy, greater mason output
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. The plaster is waterproof.
5. Mortar may be mixed manually or mechanically.
6. Not necessary to use dry cement in plastering, hence reduce plastering cost.
7. The plaster mortar exhibits good workability, hence higher mason output is observed.
8. Useful for ceiling plaster. Mix Master Plaster MPC-102 in cement slurry which is applied on ceiling to be plastered. Reduces throw back & reduces dry cement consumption, increase mason output, ensures high bind strength & good quality workmanship.
9. Hygroscopic constituent in Master Plaster MPC-102 retains sufficient moisture for initial period in Plaster mortar ensuring sound seamless hydration, ensuring highest strength and highest toughness in plaster. Regular water curing cycle of 10-14 days is essential.

Master Plaster MPC-102 may be used in masonry mortar which improves the cohesion of the mortar, and eliminates the need to re-fluidize the mortar with water.

Dosage

Dosage addition of Master Plaster MPC-102 may vary depending on nature of sand, Type of cement, ambient temperature and nature of application

Sand	MPC 102 dosage per 50kg bag of cement
River Sand	200 ml – 250 ml, 250 ml for best results
M-Sand or Crushed Stone Sand	400 ml – 800 ml, 500 ml for best results
Washed Sand or Processed Sand	350 ml – 500 ml, 500 ml for best results

Standards

Master Plaster MPC-102 confirms to IS 1905 Clause 5.4.2 & IS 1661 (reaffirmed 2001) Clause 13 for application of plaster.

Method of Use

Cover all RCC-Masonry joints with appropriate mesh and mortar sufficient period prior to plaster.

For best results, Apply Spatterdash Coat on RCC, Cement Blocks, AAC blocks, etc., surfaces one day prior to plaster. If plastering on un-hacked surface use Razon Anchorex 290 Bonding agent for excellent bonding of mortar on smooth surfaces.

Thoroughly dry mix cement and sand as usual. Add Master Plaster MPC-102 to the gauging water and add this to the cement-sand mortar. Master Plaster MPC-102 should never be added directly to dry mortar. Mix thoroughly. Use this mortar as usual. Use Master Plaster MPC-102 for internal/external plaster, ceiling plaster. When using crushed stone sand plaster, avoid using wooden trowel. Working with smooth surface metallic (aluminum section) trowels yield best results. Water cure plaster, masonry & other cementitious mortars for at least 10 to 14 days as usual.

Performance

The following results were obtained in a 1:4 Cement & M-Sand mortar using 500 ml Master Plaster MPCS-102 at 0.65 W/C ratio

S/n	Particulars	Test Method	Result
1.	Plastic Density	-	2378 kg/m ³
2.	Initial Flow	-	110 mm
3.	3 Days Compressive Strength	BS 6319 Pt 2	6.77 N/mm ²
4.	28 Days Compressive Strength	BS 6319 Pt 2	17.24 N/mm ²
5.	28 Days Pull Out Tensile Adhesion Strength	ASTM-D 4541	1.20 N/mm ²

Product Data

S/n	Product Data	
1	Colour	Brownish Black Liquid
2	Specific Gravity	1.01-1.02 at 25°C
3	pH	6 - 9
4	Dosage	200 ml- 800 ml per 50 kg cement depending on nature of sand, cement, ambient temperature and nature of application.
5	Packing	5 Ltr, 20ltr, 50 Ltr.
6	Storage/life	1 year, store in cool & dry place in a closed container away from direct sunlight.
7	Toxicity & Corrosion	Nil. Neither initiates nor promotes corrosion of steel.
8	Application	For internal , external & ceiling plaster, masonry mortars & other cementitious mortars, for plastering buildings, water tanks, water retaining walls, etc. Compatible with machine applied plaster.
9	Advantages	Master Plaster MPCS-102 increases compressive strength & Tensile Adhesion strengths, imparts waterproofing properties, improves bonding & prevents cracking.
10	Cement Compatibility	OPC, PPC, PSC.

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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.



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