

FAIRCRETETM RMW

INTEGRAL WATERPROOFING ADDITIVE FOR CONCRETE AND PLASTER

BENEFITS

- Ensures perfect watertight structure.
- Disrupts the capillaries that cause leakage in the structure.
- Reduces mortar dropping when used in plaster.
- Very low cost.
- Less dosage per bag proves it highly efficient.
- Chloride free & free from corrosion.
- Fair concrete surface. Ensures good finish to concrete.
- Apart from waterproofing, it increases strength of concrete and plaster.
- Increase plasticity of concrete, thus it flows easily without increase in water and better compaction is achieved. Reduced water cement ratio increases compressive strength and durability of concrete.
- Does not affect the setting time of the concrete and mortar.
- Liquid nature ensures homogeneous mixing.

PRODUCT

FAIRCRETE RMW is an integral, high performance waterproofing additive based on high performance polymers, which reduces the permeability throughout the depth of concrete. It conforms to **IS 2645 - 2003**. **FAIRCRETE RMW** is approved by **Bureau of Indian Standard** vide ISI registration no. **CM/L7648592**

USES

FAIRCRETE RMW is used to minimise permeability and porosity of concrete and cement sand mortar. It is a useful product for water retaining structures like terrace, chajjas, water tanks, parapets, bathroom, toilets and industrial structures like reservoirs, cooling tower, etc.

DESCRIPTION

FAIRCRETE RMW in concrete reacts with the cement during the hydration process to form a hydrophobic coating on the voids in concrete which reduces the capillary suction & minimizes water percolation. **FAIRCRETE RMW** also avoids segregation and bleeding of fresh concrete. There is a considerable reduction in capillary pores within concrete, which reduces permeability & improves concrete durability. Increased durability & water tightness of concrete protects it

against the ingress of dampness, chlorides & other aggressive chemical attacks.

TYPICAL PROPERTIES

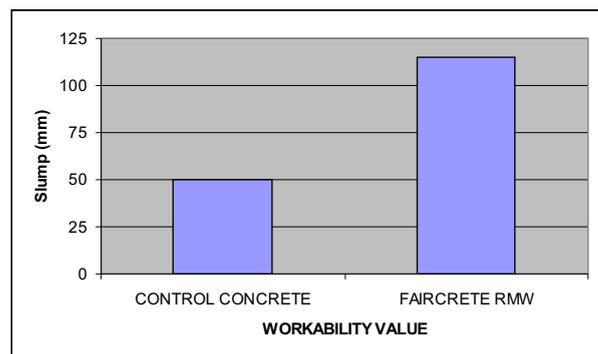
- Colour** : Dark Brown
pH : 7.5 ± 1
Compatibility : Can be used with all types of Portland Cement.
Permeability to water : Less than 10% as compared to 50% max. allowable under IS : 2645 compared to control sample.
Setting Time : No significant effect on setting time of concrete or mortar.

Typical Test Result

- Grade of concrete - M20
- Brand & Grade of cement - Siddhi 53 grade
- Sand Zone - II
- Cement content - 290 kg/m³.

TYPICAL STRENGTH DEVELOPMENTS

	DOSAGE	W/C RATIO	SLUMP (MM)	COMPRESSIVE STRENGTH (N/mm ²)			
				1 DAYS	3 DAYS	7 DAYS	28 DAYS
CONTROL CONCRETE	NIL	0.55	50mm	9	12	15	22
FAIRCRETE RMW	150ML	0.50	115mm	10	13	17	23



APPLICATION

Plaster : **FAIRCRETE RMW** is ideal for use with all sand and cement mortars where it is required to reduce permeability to a minimum.

Concrete : **FAIRCRETE RMW** is recommended for all general concrete work where the risk of porosity and permeability must be minimised. Eg. basements, bund walls, tanks, balcony, floor and roof slabs.

The required quantity of **FAIRCRETE RMW** is measured

FAIRCRETETM RMW



and poured with the regular pouring of water in case of conventional concreting. Separate dispensing system is required for RMC plants.

FAIRCRETE RMW water mixture shall be added to the concrete or mortar and mixed thoroughly.

Mixing shall be continued and further water shall be added until the required workability is obtained.

The total amount of water added per mix in the initial batches shall be maintained for the remaining batches.

Note : Mixes using **FAIRCRETE RMW** will require much less water than normal mixes for the same workability. Water reduction may be as much as 15% or more. If the moisture content of the sand or aggregate changes i.e., it becomes wetter or dryer, then the amount of water used must be reduced or increased to give the original workability.

PACKING & DOSAGE

FAIRCRETE RMW can be added in 150-200ml per bag of cement. Optimum dosage is 150ml/50 kg. cement.

FAIRCRETE RMW is supplied in 150ml, 500ml, 1, 5, 10, 50, 100, 200 ltr. carboys.

SHELF LIFE & STORAGE

FAIRCRETE RMW will have a shelf life of **24 months** in unopened containers when kept in dry conditions at a temperature between 5°C to 45°C. Storage at higher temperature or high humidity may reduce shelf life.

HEALTH & SAFETY

FAIRCRETE RMW is non-toxic and mild alkaline. If splashes on skin appears, it should be washed with water. If contact with eye occurs wash with plenty of water and seek medical help.

SPECIFICATION

FAIRCRETE RMW is an integral waterproofing additive for concrete and mortar used at the rate of 150-200ml per bag of cement and strictly in accordance with the instruction of FAIRMATE.

QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO (EMS) 14001 & OHSAS 18001 (Occupational Health and Safety) certified by ISOQAR / UK.

TECHNICAL SERVICES

Mix Design : Fairmate has a dedicated advisory service on Concrete Mix Design and can be contacted if assistance is required.

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our laboratory in Baroda and technical personnel & experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.



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