



HYDROCRETE™

EXCELLENT WATER PROOFING COATING

- Useful as an effective water proof coating on well prepared concrete
- Bonding agent between old and new concrete / mortar
- Un-affected by ultra-violet hence suitable for exterior applications

ApcoBuild Hydrocrete is a milky white specialty Styrene Acrylic Latex, used for cementitious waterproofing coating and external coating

It is manufactured by employing state-of-the art emulsion polymerization technology ensuring product consistency.



apcotex industries limited

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AREAS OF APPLICATION

- Waterproofing of terraces, sunken portion, chajjas, masonry walls, sloping RCC Roofs
- External surface coatings
- Patch repair mortar for RCC members and floor
- Water proofing mortar and concrete

MIXING RATIO

Water proofing Coating	
(ApcoBuild Hydrocrete : Cement)	1.0:1.5
Bonding Coat	
(ApcoBuild Hydrocrete : Cement)	1.0:1.5

ADVANTAGES

- Reduces water without affecting workability
- Un-affected by ultra-violet
- Increases workability at a given W/C ratio
- Gives dense mortar / concrete resulting improved impermeability
- Increases Flexural, Tensile strength & Bond strength
- Reduces shrinkage in mortar and concrete
- Bonding agent between old and new concrete
- Allows trapped water vapors to escape thus preventing blistering and adhesion failure
- Prevents salt penetration into the concrete thus resisting to sulphate and chloride attack
- Acts as anti-corrosive for steel rebar
- Increases durability of waterproofing coating even in continuous contact with water
- Imparts resistant to fungal and microbial growth
- Allows easy cleaning of tools and equipment used for application

TECHNICAL INFORMATION

Appearance	Milky white pourable liquid
% Total Solids	32 ± 1%
Specific Gravity	1.03 ± 0.02
Application Temp	Between 5 to 450 °C
Shelf -Life	12 months in ideal storage conditions

APPLICATION METHOD

WATER PROOFING

- For Waterproofing of existing slab, the mother concrete slab must be stripped off its old treatment completely. Mechanical methods must be adopted to prepare the surface and vacuum suck to clean off all loose particles and debris.
- Mother slab must be sound / mechanically surface prepared / grouted for internal cracks.
- Surface cracks must be suitably treated with Polymer Modified Mortar (PMM).
- Slab must be thoroughly wetted with water to a state where it is saturated. But, extra care must be taken to see that there is no stagnant or standing water. Any such water must be mopped off. Ensure a saturated surface dry condition (SSD Condition), where the slab is thoroughly wet but dry to touch before further treatment.
- Mix ApcoBuild Hydrocrete and Cement in the ratio of 1.0:1.5 by weight. Apply first coat on the surface and allow it to dry for 4-5 hours.
- Apply second coat right angle to first coat with same latex cement ratio. Provide suitable mechanical key to achieve better bonding
- Allow the film to air cure for at least 72 hrs. For Horizontal applications, 15-20 mm Cement-Sand Mortar screed in 1:3 shall be laid over the coating, which protects the film from damage and allows further work.

BONDING

- Surface for bonding treatments must be thoroughly cleaned of all laitance, loose material, oil, greases etc.
- Mechanical means such as wire brushing, shot blasting can be used, and finally vacuum cleaned of all loose solids and liquids.
- Pre wet the surface with water adequately to a saturated surface dry (SSD condition). Ensure that there is no standing water.
- Mix ApcoBuild Hydrocrete and Cement in the ratio of 1.0:1.5 by weight to get a smooth creamy paste.
- Immediately apply single coat with brush. Allow this coat to become tacky and then apply fresh concrete or mortar immediately. Avoid the bond coat to get dried up completely. However, if it gets dried up in such case apply second coat.

COVERAGE

APPLICATION AREA	COVERAGE
Waterproofing Coat for Terrace, Chajja, Bathroom etc	25-30 sft per kg for double coat
Bond Coat	55-60 sft per kg per coat
External Waterproof Coat	55-60 sft per kg per coat

Note: Coverage may be varying depending upon substrate condition.

POLYMER MODIFIED MORTAR (PMM) PREPERATION

Cement	50 kgs
Sand	125-150 kgs
ApcoBuild Hydrocrete	8.0-9.0 kgs
Water	Just sufficient to attained desired consistency

COVERAGE

APPLICATION AREA	COVERAGE
Bond Coat	55-60 sft per kg per coat
Repair Mortar (PMM)	7-8 sft per kg for 10 mm thickness

Note: Coverage may be varying depending upon substrate condition.

PRECAUTIONS

- Always use fresh, cement and sharp clean, well-graded aggregate.
- ApcoBuild Hydrocrete is used with PPC and OPC cement.
- Always add Cement into latex and not latex into cement.
- Do not apply coating over loose and debonded surfaces.
- Do not use hard water for mixing with polymer / cement.

HEALTH AND SAFETY

Keep out of reach of children. Keep in a cool place. If in contact with eyes, rinse with plenty of water and seek medical attention if irritation develops.

PACKAGING

1, 5, 26, 50 & 100 kg.

