

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

COVERAGE

APPLICATION AREA	*COVERAGE
Waterproofing Coat for Terrace, Chajja, Bathroom etc	25-30 sqft. per kg for double coat
Bond Coat	55-60 sqft. per kg per coat
External Waterproof Coat	55-60 sqft. per kg per coat
Repair Mortar	7-8 sqft. 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 Plus 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

PACKAGING

1, 5, 26, 50 & 100 kg.

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. If in contact with skin, wash immediately with plenty of soap and water.



apcotex industries limited

REGISTERED OFFICE AND FACTORY
 Plot No. 3/1, MIDC Industrial Area, Talaja: 410208, Dist: Raigad, Maharashtra.
 Tel.: +91-(022) 27403500, Fax: +91-(022) 27412052, Email ID: apcobuild@apcotex.com, Website: www.apcobuild.co.in



HYDROCRETE PLUS™

HIGH PERFORMANCE ACRYLIC WATERPROOF COATING & REPAIRS

- Yields improved strength properties in mortar / concrete
- Excellent protective waterproof coat on cementitious substrate
- Bonding agent between old and new concrete

ApcoBuild Hydrocrete Plus is a milky white specialty Styrene Acrylic Latex, used for waterproofing coating and external coating; repair of RCC and floor Mortar. It is manufactured by employing state-of-the art emulsion polymerization technology ensuring product consistency.



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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 Plus : Cement)	1.0:1.5
Bonding Coat	
(ApcoBuild Hydrocrete Plus : Cement)	1.0:1.5
RCC Repair Mortar	6.5-9.0 kg per bag of cement
Floor screed	8.0-9.0 kg per bag of cement

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	43 ± 1
PH at 25°C	9.5 ± 0.5
Brookfield Viscosity LVF (CPS) SP.1, 12 RPM at 25°C	100 Max
Specific Gravity	1.010-1.022
Storage	Store between temp of +5°C and 40°C. Keep containers closed when not in use. Protect from direct sunlight and freezing
Shelf -Life	6 months in ideal storage conditions

APPLICATION PROPERTIES

Pot Life (1.0:1.5)	35-45 Minutes
Permeability to water IS2645-1975	Passes
Adhesion	Excellent

APPLICATION METHOD

Water Proofing

- For Waterproofing of existing slab, the mother concrete slab is stripped off its old treatment completely. Mechanical methods are 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 Mortar).
- 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 Plus 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. Create 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.

RCC REPAIR

- Remove all the loose particles from the substrate.
- Check the soundness of the substrate with help of hammer and remove the hollow portion.
- Cut the periphery of the surface into regular shape with help of mechanical cutter for better bonding.
- Check for the rusted bars; If the cross-section of the bars is less than 20% then replace the bar.
- Expose the bars from the circumference by removing the concrete from entire periphery and remove all scale and corrosion deposits mechanically or ideally by grit blasting.
- Apply ApcoBuild RustKill with the help of cotton swab on the entire periphery of the bar.
- Wait for 15-20 minutes and then wash off the bar with the help of water jet removing the entire rust.
- Allow excess surface water to evaporate and let it come into SSD Condition.
- Mix ApcoBuild Hydrocrete Plus with neat cement in 1.0:1.5 proportions by weight. Brush applies a single coat immediately over the cementitious surface. Allow this coat to become tacky and then apply fresh concrete or mortar immediately. Avoid the bond coat to dry up completely. However, in case of complete drying, apply second coat.
- Prepare repair mortar by ApcoBuild Hydrocrete Plus as specified proportions. Select Quartz sand for repair mortar. Use mechanical mixer for better consistency. Apply this mortar when the bond coat is tacky at a thickness up to 15-20 mm. Build up the required thickness in subsequent layers of 15-20 mm each over the final coat. Final layer can be finished with trowel to get smooth finish.

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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 Plus and Cement in the ratio of 1.0:1.5 by weight to get a homogenous mix.
- 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.

FLOOR REPAIR

- Remove all oil, grease, dirt, debris and loose materials by using mechanical tools like chisel, wire brush, scabblor, shot blast or sand blast.
- Profiling of the floor is essential. Cut the floor to get rectangle shape and sufficient depth for filling. Under no circumstances depth of filling should be less than 12 mm. Edges can be cut to an angle less than 90 degree inwards for better result.
- Pre wet the surface with water adequately to a saturated surface dry (SSD condition). Ensure that there is no standing water.
- Mix ApcoBuild Hydrocrete Plus with cement in 1.0:1.5 proportions by weight. Brush applies a single coat immediately over the cementitious surface.
- Allow this coat to become tacky and then apply fresh concrete or mortar immediately. Avoid the bond coat to dry up completely. However, in case of complete drying, apply second coat.
- Prepare repair mortar by ApcoBuild Hydrocrete Plus as specified proportions. Select Quartz sand for floor repair mortar. Use mechanical mixer for better consistency. Apply this mortar when the bond coat is tacky at a thickness up to 15-20 mm. Built up the required thickness in subsequent layers of 15-20 mm each over the final coat. Final layer can be finished with trowel to get smooth finish.
- Light traffic can be allowed after 24 hours.

