

SHELL CRETE AP

ACRYLIC POLYMER MODIFIED CEMENTITIOUS FLEXIBLE COMPOSITE COATING SYSTEM

PRODUCT DESCRIPTION

SHELL CRETE AP (PC 2108) is a single component, water based, acrylic co-polymer liquid with high solid content. When mixed with cement, it combats the shortcomings of cement and enhances the vital quality of concrete like bonding, flexural, compressive, impact strength and makes it an excellent choice for use in new as well as old renovation work. It also improves the thin section fridity of cement by forming a full strength waterproof seal in the form of monolithic uniform membrane which also protects it from UV rays and ageing.

STANDARDS

Meets the requirements of IS:13435 Part 3;BS 6319 Part 4:1984; BS 7542:1992 and BS 6319 Part 2: 1983

PRODUCT DESCRIPTION	RESULT
Appearance	Milky White Emulsion
Solid Contents	40 ± 2
Viscosity on Ford up	Free flowing liq / 13 - 15 secs
pH value at 30 °C	8 ± 0.5
Compressive Strength, kg/cm ²	80 + 20, kg/cm ²
Specific Gravity at 25 °C	1.05
Chloride content	Nil

ADVANTAGES

- Improves waterproofing properties when used as a coating mixed with cement
- Increases mortar wears resistance, mortar tensile strength, flexural strength and impact resistance
- Provides excellent bond to concrete and masonry plaster
- Can be applied in uniform thickness to horizontal and vertical surfaces and can be over-coated by exterior emulsion coating or cement based paints.
- It allows trapped water vapor to escape and prevents blistering and adhesion failure
- It is resistant to water, alkalis, acid, UV light, fungus and micro organism
- It is non - flammable, non - hazardous and does not evolve toxic gases when exposed to fire.
- Improves tensile, flexural and compressive strength as compared to control concrete hence increases the durability of structures.

AREA OF APPLICATION

- Additive with cement for waterproofing of roofs, walls, water storage tanks, toilets, swimming pools, kitchen, sewers, channels, planters etc.
- Additive to cement mortar for repairing of spalled concrete, floor, columns, beams, canopy, slab and sealing and repair of asbestos panels, pipes and surfaces.
- Repair mortar for precast structural concrete members, toppings, patches, cracks etc.
- Bonding coat for old to new concrete and masonry plaster
- Priming of reinforcement steel
- Durable finishing of exterior walls
- Surface treatment, protection, waterproofing and repairing of concrete and masonry

APPLICATION METHODOLOGY

Surface preparation

Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance and dust. Degrease the surface by using suitable solvents. Repair the spalled concrete portion by saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid feather edging and to provide strong bond. Clean the concrete surface to remove any contamination where breaking is not possible. Roughen the surface by light scrubbing or grit blasting. For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess of water prior to application.

Application

SHELL CRETE AP can be used as a waterproof coating or an additive to cement-slurry bond, repair mortar, concrete or cement based paint by mixing it in the ratio as per the given chart .

APPLICATION	SR:W:C:S	DILUTION IN WATER	APPLICATION AREA	COVERAGE (Sqm/kg)	STRENGTH (kg/cm ²)		
					COMPRESSIVE	FLEXURAL	BOND
Water-proofing coating	1:Nil:2:Nil	No dilution	Waterproof coating	2.5 Thickness approx. 1.1 mm (2 coats)	-	-	-
Cement Slurry/ Bond	1:Nil:2:Nil	No dilution	Bonding Coat	2.5 Thickness approx. 1.1 mm (2 coats)	290	8	8.2
Mortar	1:Nil:2:5	No dilution	Polymer repair mortar	2.25 Thickness 2.15 mm (1 coat)	420	92	8.5
Concrete	Add SR 10% by wt of cement	As required	Repair concrete and screed	Depending on mixed design	Depending on mixed design		
Additive to Cement based paint	Add SR upto 10% by wt of cement in cement paint	As required	External coating for bonding	Depend on mixed design	NA	NA	Depends on paint properties

PACKAGING

Available in 1 litre, 5 litre, 20 litre and 200 litre containers.

STORAGE

- Store the material in cool and dry place.
- Shelf life is 2 years.

The technical data provided here is the average result of the tests carried out in our in-house **SUPREME BITUCHEM CONSTRUCTION CHEMICAL** laboratory on **SHELL CRETE AP**. **SUPREME BITUCHEM** reserves the right to change or modify the data without prior notice. All reasonable care has been taken in compiling the data that to the best of knowledge is accurate and true. All recommendations are made in good faith. We can accept no responsibility and no warranty is implied with regard to any of the recommendations made in the technical data sheet, since the conditions of actual use and the labour involved are beyond our control. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

Our Products & Services

- ▶ APP & SBS Specialized Waterproofing Membranes
- ▶ Anticorrosive Coating and Tapes
- ▶ Specialized Products for Highways & Road Surfacing
- ▶ Construction Chemicals and Building Materials
- ▶ PU Bituminous Waterproofing Liquid Membrane
- ▶ Specialized Civil & Waterproofing Contracts
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- ▶ Thermal Insulation Products
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