



ARMSTRONG CHEMICALS PVT. LTD.,
Bengaluru
An ISO 9001 Certified Company



High performance Acrylic based polymer modified Cementitious Flexible composite coating system for PROTECTING CONCRET & MASONARY.

DESCRIPTION OF THE PRODUCT :

ROOFCRETE PCM 511 High performance, Durable Elastomeric, Acrylic based polymer modified Cementitious Flexible composite coating system for PROTECTING CONCRET & MASONARY.

ROOFCRETE PCM 511 a Polymer solution in conjunction with cement provides excellent properties to combat the short falls of cement, particularly its poor adhesion, low flexural impact strength.

ROOFCRETE PCM 511 polymer solution which has to be mixed with fine cement (Grey or White) when mixed in correct proportion forms a highly durable elastomeric water impermeable membrane, which adds to the potential use as well as enhances the properties of cement mortar and easily Brushable coating, making them excellent choice for use in new as well as structural rehabilitation works. It can with stand extreme weather conditions and temperature.

ADVANTAGES :

- Highly resistant to Ultra Violet rays and chemical aggression
- Resistant to most diluted acids, alkalis, salts, moisture and fungus growth
- Highly durable in continuous wet condition.
- An be used as bonding agent between old and new concrete.
- Reduces or prevents salt penetration into concrete.
- Can be applied in uniform thickness to horizontal and vertical surfaces
- Allows trapped vapour to escape thus preventing peeling and blistering.
- Its Combines a tough, flexible, hard-wearing surface with waterproofing
- non-flammable and does not give off toxic gases, when exposed to fire

TECHNICAL DATA

No.of components	Single component
Colour	Milky white
Elongation break	> 150% (ASTM D412-2013)
Crack bridging	1.0 mm (ASTM C 1305 & ASTM C 836)
Viscosity, Seconds	12±1
Solid content	30± 3 (w/w)
pH Value	>7
14 days Bond Strength, N/mm ²	2.0 (Minimum or concrete failure)
28 days Compressive strength, N/mm ²	30 (Minimum)
Recoating Time, at 27°C, 65% RH, HOURS	4-6
Tensil strength	> 1.50 N/mm (ASTM D412-2013)
Elasticity / UV Resistancy	Minimum 20% / 100%
Full Cure	14 days
Ash Content, % (w/w)	< 1.0%
Volatile organic Matter (VOC) %, (w/w)	<1.0
Bonding strength	> 1.0 N/mm (ASTM D4541 : 2002)
Shore a hardness of	79 (ASTM D 2240-2010)
Suitability for use with potable water	Meets Used CFR 175-300

RECOMMENDED :

- ★ ROOFCRETE PCM 511 is used for surface treatment
- ★ Waterproofing of basements, toilets, terraces, roofs, swimming pools, water towers etc.
- ★ Protection of concrete against corrosion, salt attack etc.
- ★ As a bond coat mixing with cement or as an admixture to mix along with cement mortar / screed for concrete repairs

SURFACE PREPARATIONS :

All surface which are to receive **ROOFCRETE PCM 511** coating must be free from oil, laitance, grease, wax dirt or any other form of foreign material which might affect the bonding between the surface and coating. Any deposits of contaminations cement laitances should be removed by wire brushing/chipping and water washing.

Cracks pot holes, Expansion joints etc., should be properly sealed and masonry joints must be cured. If the surface has already received other types of waterproofing treatments, like tarfelt or bitumen, it is preferably to remove the tarfelt layer already received other types of waterproofing treatments like, tarfelt or bitumen, it is preferably to remove the tarfelt layer completely prior to application of **ROOFCRETE PCM 511**.

APPLICATION INSTRUCTIONS USE AS POLYMER MODIFIED CEMENTITIOUS ELASTOMERIC WATERPROOFING SURFACE COATING SYSTEM / BOND COAT :

Before application of **ROOFCRETE PCM 511** sprinkle water on the surface. Take 1 Kg. of **ROOFCRETE PCM 511** solution and 20% water is taken in an open plastic container or metal drum, to this add gradually 2 Kgs. of cement, mixing is continued for 2 to 4 min. until a lump free, homogeneous slurry is obtained, If required mix with some more water to get paint like consistency. **ROOFCRETE PCM 511** can be applied by brush or roller on the prepared surface. Do not mix more material that cannot be used within the pot life. During application, stir the contents in the container to maintain the homogeneity of **ROOFCRETE PCM 511** mix. After leaving a gap of 3 to 4 hours, the second coat of **ROOFCRETE PCM 511** can be applied. Generally two coats recommended for the best results. For bonding between old and new concrete / mortar, fresh concrete / mortar has to be placed immediately after application of **ROOFCRETE PCM 511** one coat on the old concrete surface. Curing advised on the next day of application by sprinkle the water at regular interval for long lasting durability.

COVERAGE : 6 Sq.mtr. per Kg / per Coat.

PACKING : 1, 5, 20 & 225 Kgs.

SHELF LIFE : 1 Year from the date of Mfg.

STORAGE : Store in dry condition.

Whilst **ARMSTRONG CHEMICALS PVT. LTD.** strives to ensure that any advice, information or recommendation given are appropriate and correct. It cannot accept any liability directly or indirectly arising out of the use of products since the method and place of application of the products are beyond its control.



Manufacturers :

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Authorised Distributor / Stockist

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