



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

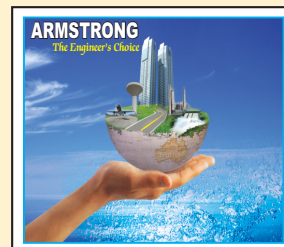


(High Performance, Durable, Elastomeric, Acrylic Polymer modified cementitious Waterproof Systems)

DESCRIPTION OF THE PRODUCT :

ROOFCOAT FLEXI 100 an unique easy to use High Performance, Durable, Polymer, modified Cementitious Elastomeric waterproofing system for protecting concrete and masonry.

ROOFCOAT FLEXI 100 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. **ROOFCOAT FLEXI 100** 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 temperatures.

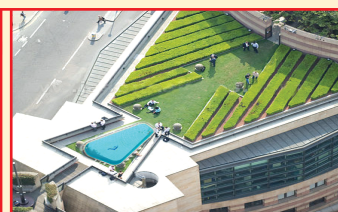


APPLICATIONS AREA

- **ROOFCOAT FLEXI 100** can be effectively used in both old and new concrete surfaces, pre-cast slabs, A. C. Roofs.
- It can be used as protective coating to vertical and horizontal surfaces.
- Waterproofing of basements, toilets, sunken portions, swimming pools, drinking water tanks, roof gardening etc.,
- Waterproofing to complicated structures like domes, arches, roofs.
- Can be used as bonding agent between old and new concrete.
- Can be used for injection grouting works. • Application temperature $10^{\circ}\text{C} < 35^{\circ}\text{C}$
- Protective coating to concrete against corrosion and salt attack etc.,
- Can be easily mixed with cement paints/acrylic paints for the best waterproofing for external surfaces.

TECHNICAL DATA

1. No. of components	Single component
2. Mixing ratio recommended to use as polymer modified cementitious elastomeric waterproofing surface coating system.	1 Ltr. ROOFCOAT FLEXI 100 mix with 2 Kgs. of cement add 200ml water to get paint like consistency.
Coverage : Bond coat / waterproof coating	6 to 8 Sq. Mtr. Per Ltr / Coat
3. Pot life at 27 plus or minus 2 centigrade	20 to 40 Minutes
4. Elongation break	> 150% (ASTM D412-2013)
5. Crack bridging	1.0 mm (ASTM C 1305 & ASTM C 836)
6. Tack free time / Hardening time	2 Hours / 7 Days
7. Tensile strength	> 1.50 N/mm ² (ASTM D412-2013)
8. Elasticity / UV Resistancy	Minimum 20% / 100%
9. Bonding strength	> 1.0 N/mm ² (ASTM D4541 : 2002)
10. Permeability to water, % of neat mortar (as per I. S. 2645 tests carried out)	Complies with I. S. requirements 50 Max Yes
11. Shore a hardness of	79 (ASTM D 2240-2010)
12. Suitability for use with potable water	Meets Used CFR 175-300



ADVANTAGES

- Provides tough flexible hard wearing surface with waterproofing.
- Resistant to most diluted acids, alkalis, salts, moisture and fungus growth.
- Highly resistant to Ultra Violet rays and chemical aggression.
- Develops excellent bonding with substrates E.G. Concrete, Masonry, Metal, Wood and Plastics etc.,
- Non-Toxic, Non flammable when exposed to fire.
- It allows trapped vapours to escape thus preventing peeling and blister formation.
- Ideal for Crack filling works for both internal/ external for cracks which may not widen further.
- Ideal to use as tile fixing additive, mix Roofcoat Flexi 100 500ml to 1 Ltr.. with 50 kgs of cement & prepare the mortar.
- Ideal for repairs to cement plastering/concrete works, mix Roofcoat Flexi 100 500 ml. to 3 Ltrs. for 50 kgs. cement.

SURFACE PREPARATIONS

All surface which are to receive Roofcoat Flexi 100 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 ROOF COAT FLEXI 100.

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

Before application of ROOF COAT FLEXI 100 sprinkle water on the surface. Take 1 Ltr. of ROOF COAT FLEXI 100 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. ROOF COAT FLEXI 100 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 ROOF COAT FLEXI 100 mix. After leaving a gap of 3 to 4 hours, the second coat of ROOF COAT FLEXI 100 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 ROOF COAT FLEXI 100 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.

NOTE :

Recommended to 2-3 coats, Generally recommended 2 coats at a time gap of 3 to 4 hours.

SHIELF LIFE : 2 years from the date of manufacturing.

CLEANING Immediately after application of ROOF COAT FLEXI 100, clean the tools, equipments and the mixing container by using water, otherwise, removal of dried / hardened ROOF COAT FLEXI 100 is difficult.

PACKING : 500ml, 1, 5, 10, 20, 30 & 210 Liters

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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