

DECKCRETE

Waterproofing by Crystalline Penetration (Osmosis) & Surface Sealing System

INTRODUCTION

Deck Crete is a single component brush applied coating system for concrete, brickwork and other cement bound surfaces. The system works on the principles of waterproofing by crystallization and becomes an integral part of the substrate on which it is applied. The product solution penetrates through the capillaries of the concrete by osmosis and reacts with soluble deposits in capillaries to form insoluble crystals that completely block the capillaries. Deck Crete works in presence of moisture, thus the crystallization process continues to seal and reseal capillaries in the concrete.

APPLICATION AREA

The system provides wide range of application for concrete & brick masonry structures and is most suitable for underground structures viz retaining walls, basements, water tanks, floor underlay that are prone to dampness and attacks from moss & fungus. It is best suitable for terraces as undercoats followed by screeds, plasters or coba.

KEY FEATURES

- Makes the surface hydrophobic, impermeable to water or dampness and free from efflorescence.
- The mixed material is thixotropic and can be applied on vertical and inclined surfaces.
- It has excellent bonding with concrete surface and becomes an integral part of it.
- The product is resistant to alkalis and UV rays.
- It is nontoxic and non-combustible.
- It retains the breathing properties of concrete.

TECHNICAL DATA

Appearance	Grey/ white powder	
Bulk density	1600-1800 Kg/ cu.m.	
Mixing ratio	Deck Crete	30 Kg
	Water	15 Kg
Workable time	25-30 min	
Dry time	2-3 hours	
Recoat time	24 hours	
Full cure time	7 days	
Consumption (in 2-3 coats)	2-3 Kg/ sq.m.	
Water tightness @ 15 m water head (EN 14891 - A.6.3 in mm)	No water penetration	

APPLICATION PROCEDURE

Surface preparation

1. The surface of concrete on which the system is to be done should be structurally sound, absolutely clean, free from all loose materials, laitance, grease, oil etc.
2. Ensure that the surface is well prepared using wire brush, grinders, blowers, vacuum cleaners etc (as the case may be)

Mixing

3. Mixing must be done using hand held stirrer low RPM (300-400 RPM). Take 10 liter water in a clean container and start adding Deck Crete

powder slowly while continuously stirring. Mix till a homogeneous thick paste is obtained. Once lump free paste is obtained slowly add 5 liter of water while mixing.

Application

4. Make sure the surface is slightly moistened but not wet. Apply the prepared mix using brush and allow it to cure for 24 hours before next coat. Apply three coats such that the brush movement direction for any two consecutive coats is perpendicular to each other.
5. During application, the surface should be protected from direct sunlight, heavy wind & rains.
6. Cure the system by sprinkling water for 3 to 7 days depending upon ambient temperature.

PACKAGING

30 kg sack

STORAGE

Deck Crete must be stored in unopened bags in cool and dry conditions. It has a shelf life of 6 months from the date of manufacture.

HEALTH AND SAFETY

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

PRODUCT DISCLAIMER

This product is manufactured with utmost care and precautions using best available materials, techniques and keeping in view the end use and assured performance. However, no specific guarantee can be given since the application of the product (prevailing site and environmental conditions while applying etc.) is beyond our control. We therefore welcome consultation in the event of doubt about application performance.