

ECMAS RASOCEM FLEX

Single Component, fiber- reinforced, flexible Waterproofing and Protection System for Concrete Surfaces

Description

ECMAS RASOCEM FLEX is premixed cement base mortar containing selected aggregates and additives and specific agents for shrinkage control during plastic and hardened stage and polypropylene fibers. With the addition of water, a highly adhesive mortar of variable fluidity is obtained for sub-base waterproof coating. Also ideal for filling in pores and micro-cracks.

Advantages

- Waterproof, Breathable and De-humidifying
- Easy and quick application and finish
- Extended Workability Over time
- Good elastic deformation
- Adhesion to concrete after 28 days higher than 1.5 N/mm²
- Resistant to chemical etching such as chloride, sulphates, acid, rain etc.
- Freeze/Thaw Resistance

Areas of Application

- Protection of concrete waterproofing
- Protection of exterior basement walls
- Protection of buildings exposed to marine aerosol.
- Waterproofing of terraces, balconies etc.
- Waterproofing of foundations destined to tile installation.

Installation Guidelines

Surface Preparation: All substrates shall be sound and free from debris, dust, loose particles, oil/ grease/ paint residues, etc. Construction joints, Macro cracks or honeycombs shall be treated/ repaired using suitable polymer mortar.

Sub-base Saturation Dampen Substrate with water until capillary saturation is achieved, carefully remove excess Water (sub-base surface should be dry).

Mortar Preparation Pour approximately 90% of water in to mixing container and pour Powder in to the container and mix 3-4 Minutes with mechanical mixer

After that add remaining water and mix again 2 to 3 minutes till homogeneous mix. Water Doses rate indicated in the table may be increase in case of particularly hot weather. Condition or even reduce in case of cold weather or high humidity.

Application Apply 1.5-2mm of ECMAS Rasocem Flex with a trowel, carefully filling in pores and micro-fissures.

Once hardened a second layer no more than 1-2 mm thick may be applied. Metal trowel can use for surface finish.

A synthetic mesh may be applied between first and second layer while the first is still wet. Additional mortar may be used to completely cover the mesh provided maximum thickness does not exceed 3-3.5mm.

Two or Three layer of Rasocem Flex may be applied with paint roller at intervals of 10-15 minutes without exceeding 2-3 mm thickness. A finishing coat may be applied after 24 hours have elapsed from previous layer.

It is advisable to apply product at any temperature between +5°C and + 35°C and low temperature (<5°C) considerable slow down product setting whereas high temperature (>35°C) considerable reduce mortar workability.

Curing: The use of polypropylene fibers and specific anti-shrinkage additives prevent the formation of cracks. However, it is advisable to use appropriate protection and avoid application during hot summer months and in places exposed to strong ventilation/ winds, solar radiation or sudden heavy rainfall. Curing with light water sprinkling for 3-4 days is recommended.

DO not use ECMAS Rasocem Flex

- Whenever required thickness exceed 3 mm
- Whenever formwork construction is essential
- Whenever concrete is in contact with liquids with pH less than 6.

Technical Specification

Specification	Trowel Application	Roller Application
Appearance and Form	Grey/Powder	
Water for 100 kg ECMAS Rasocem Flex	19-20 Liters	32-33 Liters
Liters of fresh Mortar for 100 Kg of Rasocem Flex	77	80
ECMAS Rasocem Flex for 1m ³ Fresh Mortar	1260 -1330	1210 - 1275
Yield Kg/m ² /mm fresh mortar	1.26-1.30	1.20-1.28
Density g/cc	1.55 ±0.05	1.65 ±0.05
Initial tensile adhesion Strength	>0.5 N/mm ²	
Crack Bridging under normal condition	>0.75 mm	
Impermeability	No Water Penetration	
Pack Size	25 Kg Bag	
Shelf Life	12 months	

Storage & Handling

Material should be stored in Cool and Dry shade between 5°C -40°C in its original unopened packing, away from moisture/ water. Please do not use hook and handle carefully during transport.

Safety & Precautions

Wear all PPE's at the time of Application like Safety boot, Safety Goggles, Hand Gloves, Mask, etc. and avoid contact with Skin and Eyes. Any direct skin contamination should be washed off immediately with soap and water.



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