

ECMASCREED 414

Solvent Free, 3 Component, Epoxy Underlay Screed

Description

ECMASCREED 414, is a pre-weighed, self-leveling epoxy underlay screed system. It is a three-component epoxy system with selected aggregates and epoxy resins. After curing, it provides a hard, semi-smooth, impervious, and easy-to-clean surface. It has excellent adhesion with cementitious substrates, Kota stone, marble, etc., and provides good abrasion resistance on floors. It can be finished with any epoxy coating, self-leveling epoxy toppings, or Polyurethane coatings.

Areas of Application

ECMASCREED 414 is designed for use with medium to light vehicular like forklifts, trollies, etc. in a wide range of industries like Power Plants, Pharmaceutical plants, Food Processing plants, warehouses, cold storage, subways, kitchens, Hotels, etc.

Advantages

- Economical and faster application
- Good resistance to a wide range of chemicals
- Good abrasion resistance
- Self-leveling property with high adhesion
- Hygienic, provides dense, impervious seamless floor which can be easily cleaned

Technical Specifications

Appearance of cured surface	Off-white to Brownish
Mixing Ratio, Part A: B: C	2: 1: 6
Specific Gravity of mix at 27 °C	1.8±0.1
Pot Life of Mix at 27 °C	35 - 40 minutes
Application Temperature	5 - 35 °C
Initial Cure 27 °C	24 Hours
Full Cure 27 °C	7 Days
Compressive Strength 7 Days BS6319	>60 N/mm ²
Tensile Strength 7 Days BS6319	>15 N/mm ²
Bond Strength 7 Days ASTM D412	1.5 N/mm ² or concrete failure
Application Thickness	2-4 mm
Coverage Area	1.8 - 1.9 Kg/m ² /mm thickness
Recommended Primer	ECMAPRIME EP/ ECMAPRIME EP-SF
Shelf Life	12 months
Packaging	18 Kg Kit

Application Instructions

Surface Preparation: The flooring substrate should be structurally sound, clean, dry, and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Clean the surface by scrubbing, wire brushing, or grinding to remove laitance, dust, grease, paint, etc. followed by air drying. The moisture content of the substrate surface should not be more than 4%. In case of contamination, light sand-blasting, detergent wash, and /or acid etching may also be done. The choice of surface preparation should be determined by the nature and extent of contaminants present on the concrete surface. Damaged or uneven areas, cracks, etc. should be repaired.

Mixing: All packs are pre-weighed and ready for onsite mixing. A suitable power-driven mixer/stirrer is recommended for the uniform mixing of ECMASCREED 414. Stir the base and hardener separately. Add hardener into the base and stir well till a uniform color is achieved. Add slowly the filler into the mixed base and continue mixing till (2-3 minutes) a smooth homogeneous mass is obtained. Wait for 5 minutes to release entrapped air from the epoxy mix and remix the mass before applying it.

Application: The product may be applied by a notched/smooth steel trowel to the required thickness. The entire mixed material should be poured onto the surface primed with ECMAPRIME within 24-28 hours after the application of primer and spread slowly and evenly to achieve the desired thickness. While application, the substrate temperature should be at least 5°C and not more than 40°C.

Coverage: ECMASCREED 414 Coverage will be approximately 4-5 m²/18 Kg kit @ 2 mm thickness depending upon surface leveling and substrate conditions.

Precautions

- Unused material should not be left open.
- Mix only the sufficient quantity which can be applied within the pot life of material
- Do not dilute with water or any solvent and do not apply on wet surfaces.
- Do not apply if rain is expected within 24 hours
- After use, clean all the equipment with Xylene or a cleaning agent.

Storage & Shelf Life

12 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38°C. Store the material in a covered area away from direct sunlight and protect it from extremes of temperatures.

Safety Precautions

Wear all PPEs at the time of application like Safety boots, Goggles and Gloves, and a face mask, and avoid direct contact with Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

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