

Peracrete Technical data sheet

PERACRETE is a pre-bagged Cementitious Resurfacing & Coating Mix with high viscosity. It is a strong and durable overlay used for the restoration of deteriorated asphalt, concrete, metal, masonry, ceramic and brick surfaces, with layer thickness ranging from 10mm to 25mm. Applied with a roller and screed with a vibrator. Polishing after placement is an option as an enforcing treatment and to give beautiful lustre finish. PERACRETE has 2-3 less shrinkage, no shrinkage cracks, and provides waterproofing, increased durability, density and freeze-thaw cycle resistance. Impermeable to crude oil; stops and prevents rebar corrosion.

APPLICATIONS

Recommended for use in:

- As a repair layer or a new installation for floors, pavements, driveways loading docks and other trafficable surfaces.
- As a relining coating for ceramic or metal pipes
- Production of liquid impermeable concrete, including crude oil;
- Corrosion resistant precast concrete;
- Abrasion for salt resistant trafficable concrete;
- Non-shrinking concrete for flatwork;
- Waterproofing

TECHNICAL DATA

- Appearance: Light Grey to Grey powder
- Density: 2265 Kg/m³ or 145 LB/CF
- Specific gravity 2.16
- pH 9-11
- 1 bag (25kg) covers 1.1-1.3m² at 12mm
- Minimal layer thickness (10mm)
- Hardening time: 4 hours

-28TH DAY TYPICAL VALUES

- Compressive strength: (65.66MPa)
- Flexural strength:(12MPa)
- Water impermeability: 1,550 PSI (W12)
- Mohs Hardness: 5 - 6+
- Stable in acidic conditions with a pH <3

FEATURES AND BENEFITS

- No curing is needed
 - Little to No shrinkage cracks
 - No surface preparation or priming is need - just wash away any loose materials
- and make sure the surface is soaked/damp prior to application.No bonding agents required.**
- Early strength gain on 1-2 day(s).
 - No efflorescence, flaking or sliding.
 - Increased compressive strength, up to 35%
 - Shrinkage is 2-3 times lower. No bleed water.
 - 100% water impermeability at a concrete layer thickness of 10mm



Standard Grey is a fine mix.
With 2mm max aggregate.

-Can be applied to in an ambient temperature range from -4°F to 104°F

-High resistance to chemical and climatic corrosion.

-High freeze-thaw resistance.

DIRECTIONS FOR USE/INSTRUCTIONS

1. The batch must be no smaller than 25kg
2. For small batches (25kg) use a drill mixer. Add 3.2kg of water.== 3.2 litres of water per every loaded bag of Peracrete wc 0.32
3. Mix for 5 minutes
4. The batch will look stiff but do not add more water.will have creamy texture
5. Concrete Substrate to be applied must be roughened with open pores, clean from grease, paint and laitance. The surface must be saturated until no longer thirsty for water damp but no pooling or ponding.(NO BONDING OR PRIMING AGENTS NEEDED).Adheres to any porous surface.
6. Distribute the layer by screed with a vibrator or gauged roller (strike off)
7. Hardening time is 4 hours in normal conditions.
8. When surface is set enough to hold weight of a man ,but still damp use magnesium float or pizza pan power trowel to flatten surface using existing cream.**Do not** add or spray water to create paste to bring back timing is critical for best results.
9. Finishing: for a smooth surface, polish with a metal trowel (after spraying lightly with Peramx finishing aid), do not spray water directly onto the layer.Use Peramax as trowling aid only.
10. After application, do not provide curing with water and do not apply with any curing compounds. Do not spray water onto the fresh Peramax Surface.

PACKAGING

Peramax is packaged in 25 kg paper and plastic bags..

SHELF LIFE

12 months from the date of manufacture. Store the product in closed bags in a dry, well-ventilated area.

PRECAUTIONS

Do not add extra water to the batch.

Do not cure

Do not add any other chemicals or supplementary materials to PERACRETE. Fibres and iron oxide-based pigments are fine.

PERACRETE is non-hazardous, non-flammable and non-explosive for application, transportation and storage.

Consult the SDS before use

RELATED DOCUMENTS

Safety Data Sheet

SAFETY

Operation with PERACRETE is similar to cement mixing jobs, always wear an approved particle respirator and rubber gloves. Avoid inhalation of the dry product or direct skin and eye contact. Caustic when mixed with water. In case PERACRETE is inhaled, swallowed or gets into contact with the skin or eyes, rinse and wash abundantly with water. Refer to SDS for additional health and safety information.

HAZARD IDENTIFICATION

Classification: Xi; irritant; R36/37/38, R43.

Human health hazards: Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.

Environmental hazards: This product is not classed as dangerous for the environment.

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