

PRODUCT DATA SHEET

PERACRETE

PRE-BAGGED CEMENT RESURFACING

DESCRIPTION

PERACRETE is a high-viscosity, pre-bagged Cementitious Resurfacing & Coating Mix. providing a strong and durable overlay for restoring deteriorated surfaces, including asphalt, concrete, metal, masonry, ceramic, and brick, with layer thicknesses from 10mm to 25mm. It can be applied using a roller and screed with a vibrator, and optional polishing after placement offers an enhanced, lustrous finish.

PERACRETE features 2-3 times less shrinkage, no shrinkage cracks, and delivers waterproofing, increased durability, density, and freeze-thaw cycle resistance. It is impermeable to crude oil and effectively stops and prevents rebar corrosion.

USES

- 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

FEATURES AND BENEFITS

- No curing is needed
- Little to no shrinkage cracks

- No surface preparation or priming is needed (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;
- Shrinkage is 2-3 times lower. No bleed water;
- 100% water impermeability at a concrete layer thickness of 10mm;
- Can be applied to in an ambient temperature range from -20°C to 40°C;
- High resistance to chemical and climatic corrosion;

TECHNICAL DATA

- Appearance: Liquid grey / grey powder
- Density: ~ 2.265 kg/m³ or 145 LB/CF;
- pH: ~ 9 ± 11.
- 1 bag (25kg) covers 1.1 SQM² at 12mm
- 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

PACKAGING

PERACRETE is packaged in 25 kg bag.

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 or cover the surface treated by PERACRETE;
- Do not add any other chemicals or supplementary materials to PERACRETE, except for oxide based pigments;
- PERACRETE is not hazardous, not flammable and not explosive for applications, transportation, and storage;
- In all cases, consult the Material Safety Data Sheet (MSDS) before use.

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 the MSDS for additional health and safety information

DIRECTION FOR USE

- The batch must be no smaller than 25kg
- For small batches (25kg) use a drill mixer. Add 3.2kg of water ≈ 3.2 litres of water per every loaded bag of PERACRETE (0.32 ratio)
- Mix for 5 minutes
- The batch will look stiff and creamy texture but do not add more water.
- The concrete substrate must be roughened with open pores and free of grease, paint, and laitance. Saturate the surface until damp, without pooling water. No bonding or priming agents are needed as it adheres to any porous surface.
- Distribute the layer by screed with a vibrator or gauged roller (strike off)
- Hardening time is 4 hours in normal conditions.
- When the surface is firm enough to support a person but still damp, use a magnesium float or pizza pan power trowel to flatten it using the existing cream. Do not add or spray water to create paste; timing is critical for the best results.
- Finishing: for a smooth surface, polish with a metal trowel (after spraying lightly with PERAMAX finishing aid), do not spray water directly onto the layer. Use Peramax as trowling aid only.
- After application, do not provide curing with water and do not apply with any curing compounds. Do not spray water onto the fresh PERACRETE Surface.

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