

PATCHCRETE TECHNICAL DATA SHEET

Date of revision: 11/22/2016

PATCHCRETE 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 1/3" to 1 1/4". Applied with a roller, screed with vibrator or with a brush. Polishing after placement is an option as an enforcing treatment. PATCHCRETE has 2-3 times 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 as 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 and salt resistant trafficable concrete;
- Non-shrinking concrete for flatworks;
- Waterproofing.

TECHNICAL DATA

- Appearance: Light Grey to Grey powder
- Density: 2265 Kg/m³ or 145 LB/CF
- Specific gravity: 2.16
- pH: 9 -11
- Coverage: 6 lb/ft² (1" thick layer)
1 bag (50 lb) covers 8 ft² -10 ft²
- Minimal layer thickness: 1/3" (8 mm)
- Hardening time: 4 hours
- 28th day

Compressive strength: 7,251 PSI (50 MPa)

Water impermeability: 1,550 PSI (W12)

Mohs Hardness: 5-6+

Stable in acidic conditions with pH <3

FEATURES AND BENEFITS

- No curing is needed
- No shrinkage cracks
- No surface preparation or priming is needed - just wash away any loose materials and make sure the surface is soaked/damp prior to application.
- Early strength gain on the 1-2 day. No efflorescence, flaking or sliding.
- Increased compressive strength, up to 35%
- Shrinkage is 2-3 times lower. No bleed water.
- No curing is needed.



- 100% water impermeability at concrete layer thickness of ¾".
- Strong adhesion to any porous material and metal.
- Can be applied in 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. Batch must be no smaller than 50 Lbs. (22.7 Kg).
2. For small batches (50 lbs) use a drill mixer. Add 0.7 Gallons or 90 OZ [5.87 Lbs] = 2.7 Liters of water per every loaded bag of PATCHCRETE.
3. Mix for 5 minutes.
4. The batch will look stiff, but do not add more water.
5. Distribute the layer by screed with vibrator, screed, brush or gauged roller.
6. Hardening time is 4 hours in normal conditions.
7. Finishing: for a smooth surface, polish with a wet trowel (dip it in water), but don't spray water directly onto the layer.
8. After application, do not provide curing with water and do not apply any curing compounds. Do not spray water onto the fresh PATCHCRETE surface!

PACKAGING

PATCHCRETE is packaged in 50 lb 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 PATCHCRETE. Fibers and iron oxide based pigments are fine.

PATCHCRETE 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 PATCHCRETE 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 PATCHCRETE is inhaled, swallowed or gets into contact with the skin or eyes, rinse and wash abundantly with water. Refer to the 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 sensitization by skin contact.

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



Other hazards: None.

WARRANTY

KALMATRON CORPORATION provides warranties on PATCHCRETE performance for specified projects, known application requirements and concrete/mortar mix designs before the registered date of PATCHCRETE application. KALMATRON CORPORATION warrants PATCHCRETE against defects in material or workmanship as follows:

- 1) For a period of 12 calendar months from the registered date of application, KALMATRON CORPORATION will be responsible to replace determined to be the fault of product defect.

- 2) In addition, KALMATRON CORPORATION will supply another KALMATRON product suitable for repair during a period of 12 calendar months from the registered date of application for additional charge.

- 3) This warranty does not cover any damage due to accident, natural disasters, environmental impact, misuse, abuse, or negligence.

In order to obtain warranty service, user must follow KALMATRON CORPORATION's application instructions, industry regulations and workmanship guidelines for specified projects only.

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