

PRODUCT DATA SHEET

PERAZZO

ADVANCED TERRAZZO DECORATIVE SYSTEM

DESCRIPTION

Perazzo is a Terrazzo pre-mixed uniquely engineered into a super strong shrink resistant self-bonding thin topping for applications 12mm thick, polished down to 10mm thin without curling, shrinking, and cracking on large areas.

Grouting is rarely needed in the polishing steps and mechanical polishing can be started the day after placement subject to scratch tests. It performs as a gel crystalline concrete waterproofer, non-shrinking agent; increases density and strength.

USES

- Production of high performance polished concrete for commercial, industrial and residential projects;
- Production of liquid impermeable concrete including water, crude oil, sugars and acids;
- Spalding resistant concrete;
- Corrosion resistant precast concrete;
- Abrasion & salt resistant to trafficable concrete
- Non-shrinking concrete for flat works, overlays of floors;
- Achieves high polish luxury finishes.

FEATURES AND BENEFITS

- Provides reduction in bleeding and increases workability;
- Reacts with *calcium hydroxide* to produce a greater solids volume of new insoluble

formations, providing a uniform capillarity of cement stone without hydraulic thresholds;

- Reacts with *caustic alkalis* (Na_2O and K_2O) and their salts of concrete to provide new insoluble alkali formations;
- Results in a filler effect in which its fine particles bridge the spaces between cement grains and the spaces between cement grains and aggregates;
- Promotes to rapidly bind chlorides of concrete to insoluble calcium hydrochloride aluminates

Using Perazzo achieves thin overlay economy through reduced heavy haulage, material usage, and worker fatigue, allowing more skilled time on placement and finishing, fewer polishing processes, and faster hardening times, minimizing idle worker time

TECHNICAL DATA

- Appearance: Off white to Grey and colours & decorative stone;
- Density: ~ 2.265 kg/m³ or 145 LB/CF;
- pH: ~ 9 ± 11.
- 1 bag (25kg) covers 1 SQM² at 12mm
- Minimal layer thickness 10mm
- Hardening time: 4 hours

28th Day Typical Values:

- Compressive strength: (65MPa)
- Flexural strength:(10MPa)
- Water impermeability: 1.550 PSI (W12)
- Mohs Hardness: 5 - 6+
- Stable in acidic conditions with a pH <3

PACKAGING

PERAZZO is packaged in 25 kg bag.

SHELF LIFE

Unlimited, when product is stored in standard containers and in a designated industrial environment.

PRECAUTIONS

- Test batches and sample testing must be performed in strict compliance with manufacturer's test instructions;
- Do not add any other chemicals or supplementary materials to PERAZZO, except for oxide based pigments;
- PERAZZO 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 PERAZZO 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 PERAZZO 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

Batch Installation:

- Minimal volume of the concrete or mortar batch is limited to 1 x 25 kg bag PERAZZO
- Soak the surface with water let dry until damp and no longer thirsty for water, then apply PERAZZO.

- No curing is needed.No plastic or membrane coverings should be used

Dosage and Application:

- Add 3.9L of water to a bucket, then slowly add one 25 kg bag of Perazzo while mixing with a hand drill mixer.
- Mix for 4 minutes until homogeneous. Use 3.9L of water for each mix to ensure uniformity.
- Place the mix using standard recommended tools, compact, and level off, always working to a wet edge. Ensure sufficient labor for continuous placement and mixing.
- Use Peramax finishing aid to help with surface finishing and reduce the likelihood of crazing
- The next day, after a scratch test confirms hardness, proceed with the polishing process.

Essentials:

- Always use clean equipment and tools
- Soak floor with water before application
- For cast in place applications, do not apply primers or bonding agents to the surface, as they will act as bond breakers.
- Applicable in the range of the ambient temperatures from -20°C up to 40°C without isolation measures
- Concrete curing is not required for most climatic & environmental conditions.
- Do not place control and trial specimens into the same curing water tank during lab tests. (Because of cross contamination).

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