

Technical Data Sheet : **PERAZZO CONCRETE OVERLAY**

DESCRIPTION

PERAZZO is a pre blended factory controlled advanced technology of chemical additives cement and aggregates pre bagged as Terrazzo. Its Unique properties allows thin toppings from 12mm thick, polished down to 10mm thin. without curling shrinking and cracking on large areas. Perazzo has the ability to be as a , functioning inorganic oxidizer of micrometal elements contained in cementitious materials to provide extension of the cement gel surface by decay hydration of the cement grain from 100 µm to 10µm. Uniquely less processes are needed to provide a luxurious polished Perazzo floor. 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.

ASTM CLASSIFICATION

PERAZZO DECORATIVE FLOORS belongs to three types of ASTM C 494:

1. Type C – cement hydration accelerator;
2. Type F – water-reducing high range admixture;
3. Type S – specific performance admixture.

TECHNICAL DATA

- Appearance: off white to Grey and colours & Decorative stone
- 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

- Compressive strength: (65MPa)
- Flexural strength:(10.MPa)
- Water impermeability: 1,550 PSI (W12)
- Mohs Hardness: 5 - 6+

PERAZZO concrete properties ARE DIFFERENT in five ways:

- 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.

PRIMARY APPLICATIONS

- Production of High performance polished concrete for commercial ,industrial and residential projects
- Production of Liquid Impermeable concrete, (liquids 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.

BATCH INSTALLATION

1. Minimal volume of the concrete/mortar batch is limited to 1 x 25 kg bag perazzo
2. For cast in place applications, do not apply primers or bonding agents to the surface, as they will act as bond breakers. Soak the surface with water let dry until damp not dry, and no longer thirsty for water, then apply PERAZZO.
3. No curing is needed. **No** plastic or membrane coverings should be used.

DOSAGE AND APPLICATION

- 1) Always work with Clean equipment and tools.
- 2) Tools, Bucket mixing vessel, rake come along ,hand mixer or similar, wooded float, steel trowel,spongefloat.Large areas you can use mechanical trowels and power floats.
- 3) 3.9L water into bucket slowly add 1x 25 kg bag of Perazzo to water while using hand drill mixer.Mix for 4 minutes until homogenous.Always for each mix use 3.9L water for uniformity .
- 4) Place with standard recommended tools compact and level off.always work to wet edge.Always have enough Labour for continious placements and mixing.
- 5) Recommended use Peramax finishing aid to aid with finishing surface this helps reduce any likelihood of crazing etc.
- 6) Next day after scratch test confirms hardness proceed with polishing process

ESSENTIALS

- 1.SOAK FLOOR BEFORE APPLICATION WITH WATER.
2. Applicable in the range of the ambient temperatures from -4°F up to 104°F or -22°C up to 40°C without isolation measures.
3. Concrete Curing is not required for most climatic & environmental conditions.
4. Do not place control and trial specimens into the same curing water tank during lab tests. (Because of cross contamination)

PACKAGING

PERAZZO is packaged in 25 kg bags.

ECONOMY

The thin overlay economy is achieved by less heavy haulage, less material used on site, less worker fatigue ,Allowing more skilled time on placement and finishing.Les processes involved in polishing. A speeded hardening time no workers left idle waiting for products to set.

PERAZZO

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;

PERAZZO is non-hazardous, non-flammable and non-explosive for application, 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 use rubber gloves. In case **PERAZZO** is swallowed or gets in contact with skin or eyes, rinse and wash abundantly with water. Refer to the MSDS for additional health and safety information.

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