

TECHNICAL DATA SHEET:

Product Name: PERAGUARD

Manufacturer : PT PERA ABADI SENTAUSA.

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Description: PENETRATING DENSIFIER AND ADVANCED FORCED CURING, Strengthener & HEALING OF MICRO CRACKS. And MIC Inhibitor.

PERAGUARD. A concrete densifier:

Is a unique formulation of an inorganic group of chemical additives. When applied to a concrete surface a sequence of exchange reactions take place. This produces an effect similar to magnetised water. Along with this other exchange reactions take place between Peraguard ingredients and constituents of the concrete surface simultaneously, as these penetrate through the concrete, low and hardly soluble acicular crystals of hydroxonitrates are formed. These crystals have a micro reinforcing effect, giving reinforcement to primary frame work within voids in the surface, giving a hard micro stitched dense surface on an ionic level.

Hardly soluble double salts are crystallised at the same stage, the crystals are in the form of hexagonal syngonite-like stitches and packages of parallel laminate with Interstices filled with inter crystalline solutions. The density volume and strength of the entire package depends on such solutions these harden in a simultaneous phase. This also works on older concrete as well as new concrete.

Technical data:

- Appearance: Lime/milky white liquid
- Density: 935 kg/m³
- Specific gravity 2.16
- pH: 9-11
- Treated surface water impermeable, up to 8 bar
- Stable in acidic environments up to 2 pH
- Not hazardous.

Precautions: Do not cure or cover the surface treated by **Peraguard**

Do not add any other chemicals or supplementary materials to **Peraguard**, except for oxide based pigments.

Peraguard is non-hazardous, non-flammable and non-explosive for application, transportation and storage. Consult the SDS before use.

Recommended uses:

Peraguard recommended as a densifier and Hardener for machine troweled concrete surfaces.

PERAGUARD as a floor rejuvenator restorer of worn hardened concrete floors.

PERAGUARD was originally developed for commercial and industrial floors, for harsh industrial environments that are using industrial chemicals products and processes. But because of the complete densification and impenetrable deep superficial surface rheology it can produce amazing polished concrete floors that resist stains, acids and water penetration. This gives Peraguard concrete surface a more durable surface.

Simply dampen the floor SSD and **PERAGUARD** can be directly sprayed on the surface of concrete at any time during polishing phases no need to wait until concrete has fully cured unlike other densifiers. The tight and closed barrier layer formed below the surface finish can reduce the penetration of water vapor at the same time, so as to achieve the function of moisture-proof and anti-seepage.

Before use:

Remove lid, thoroughly stir the **Peraguard** liquid making sure to stir the bottom pail as chemical may settle here. stirring mixing will make the liquid change colour to a lime/light milky look.

- 1) Clean floor from dust and loose material vacuum is best
- 2) Dampen concrete floor with water and broom
- 3) Mix Peraguard liquid for 2 minutes then let stand for one minute to settle.
- 4) Pour out liquid Peraguard into low pressure spray pump or depending on floor surface roughness a micro fibre or pour on floor with rain shower watering can & use broom to brush over surface.
- 5) Leave Peraguard to dry. This depends on concrete porosity. Usually after 4 -12 hours you can start to

Safety:

Operation with Peraguard is similar to cement mixing and liquid spray 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 Peraguard 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.