

HARDTOP T100 SL

INDUSTRIAL FLOOR LEVELLER

Product Description:

Hardtop T100 SL is a rapid hardening, cementitious, quick-drying, self-levelling leveller designed to resurface concrete floors. Hardtop T100 SL produces a high strength and wear resistant surface finish suitable for commercial and industrial areas including warehouse floors, parking garages, production and utility areas. Hardtop T100 SL can be walked on after approximately 6 hours and subjected to traffic after 48 hours.

Advantages:

- Ideal for creating wear surfaces for light Industrial applications.
- Easy to install – 10 mm to 100 mm thickness in one application.
- Quick drying – Walkable in 6 hours.
- Superior flow – Fast application.
- Usage – Power mix and Manual application
- Suitable for Residential, Commercial and Industrial applications.

Substrates:

Hardtop T100 SL is designed for installation over dry internal / external concrete subfloors.

Technical Properties:

Powder bulk density : 1.5 kg/litre
Mixed mortar density : 2.4 kg/litre

Compressive Strength

After 1-day	approx 16 N/mm ²
After 7 days	approx 24 N/mm ²
After 28 days	approx 45 N/mm ²

Surface Preparation:

Concrete floors must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminates. Mechanically prepare the floor using recommended preparation methods such as shot blasting, scarifying, diamond grinding, shaving or other suitable methods to provide a roughened, clean, sound, solid and open porous surface.

Acid etching is not an acceptable method of cleaning the subfloor. Do not use solvents or sweeping compounds.

Subfloors must be dry and properly primed for a successful installation. Subfloor temperatures must be a minimum of 10°C.

For further information, contact AQUAFIN Technical Services.

Priming:

Use ASO® Unigrund-P over standard concrete floors prior to the installation of Hardtop T100 SL levelling compound. Mix 1-part ASO® Unigrund-P with 1 parts water and apply evenly using a push broom. Do not use paint rollers, mops, or spray



equipment. Do not leave any bare spots. Brush off all puddles of excess primer. Allow drying to a thin, clear film (min. 1 hours, max. 24 hours). Very absorbent concrete may require two applications of primer to avoid pinholes and bubbling in the levelling mortar. In such cases, make the initial coat 1 part ASO® Unigrund-P diluted with 2 parts water. Allow to dry and install a second coat of 1 part ASO® Unigrund-P diluted with 1 part water. Allow drying to a thin, clear film (min. 1 hours, max. 24 hours). Note: Low subfloor temperatures and/or high ambient humidity require longer drying time. Do not install levelling mortar until primers have dried thoroughly.

Mixing Ratio:

5 litres of water to 25 kg of Hardtop T100 SL.

Mixing:

Hardtop T100 SL levelling products react and harden very quickly when mixed with water. Thorough mixing in the shortest time is essential to ensure the powder and water are evenly dispersed throughout the mix to obtain a lump-free mortar. Always mix the powder into the water. Concrete mixers and hand mixing are not suitable methods.

The most efficient method of mixing is by using a mixing paddle and a heavy-duty electric drill (650 rpm). Normal mixing time of a 25 kg bag using an electric drill or paddle is 2 to 3 minutes.

Application:

Manual Installation:

Pour the mixed Hardtop T100 SL onto the prepared subfloor. Wear spike shoes to avoid leaving

unnecessary marks in the liquid topping. Spread into place using a gauging rake with height adjustment to obtain an even Thickness. Use a stand-up spreader for smoothing and where necessary a hand trowel. Do not resurface with Hardtop T100 SL after 10 minutes of working time.

Pump Installation:

For ease and efficiency of application, Hardtop T100 SL can be pumped using a suitable Automatic Mixing Pump. Follow the instructions as set by the pump manufacturer.

Thickness:

Hardtop T100 SL can be applied from 2mm to 5mm thickness in one application.

Coatings:

The hardened Hardtop T100 SL should be protected from extreme wear, oil, salt, chemicals, abrasives and water, by applying a suitable wear protection system. Systems including epoxy coatings or flooring paints can also be used for heavy traffic areas. Contact AQUAFIN Technical Services for further information.

Coverage:

- Approximately 1.65 kg powder/mm/m².
- A 25 kg bag will cover approximately 1.5 m² at 5mm thickness. Rough surfaces coverages will vary the consumption.

Storage:

Hardtop T100 SL has a shelf life of 12 months if stored in dry conditions in the original unopened packaging.

Health and Safety:

Hardtop T100 SL contains Portland cement and quartz sand. Avoid the generation of dust. Do not inhale the dust. Avoid contact with eyes or skin. Wear suitable protective gloves and safety glasses. In case of contact with eyes, rinse opened eye for several minutes under running water. In case of contact with skin, rinse affected areas thoroughly with running water. If dust is inhaled, remove it to fresh air, ensure breathing passages are clear and rinse mouth with running water. If symptoms persist, seek medical advice.

