



Description

Cementitious, corundum and specially selected aggregate mix containing dry shake, ready to use surface hardener for the surfaces exposed to medium-heavy wear.

Fields of Application

- Suitable for interior and exterior applications.
- Industrial building floors.
- Maintenance workshops and hangers.
- Garages and car parks.
- Storage areas.
- Loading areas.
- Areas exposed to tire wheeled vehicle traffic.
- Airplane hangers.
- Helicopter landing areas.

Properties

- Easily applicable on fresh concrete.
- Provides an even and homogenous surface.
- Prevents abrasion due to mechanical wear.
- Provides resistance against impact.
- Delays dusting of the surface.

Preparation of Substrates

- The quality of the provided concrete should not vary, the strength should be uniform over the surface.
- The concrete floor should be totally compressed, have the class of min. C25 (dose of 350, 25 N/mm²) and prepared with minimum water/cement ratio.
- The thickness of the applied concrete should be minimum 15 cm.
- The air entrained concrete is not convenient for surface hardener application.
- The fresh concrete surface to be applied should have been levelled with a wooden trowel.

Application

- The concrete surface should reach a minimum bearing capacity. The footprint formation when walked over the surface should have a depth of 0.5-1.5 cm.
- Wait until the bleeding water should be evaporated from the surface due to conditions.
- For mechanical applications; Tecnica 34 DS should be spread evenly on the surface just immediately after it is applied to the surface with the automatic spreader with the amount of 4-8 kg/m² at once.
- Application in two steps is recommended for manual applications (2/3 of the total amount at first step, 1/3 of the total amount at the second step).
- Careful and homogenous scattering over the surface should be provided by preventing the variations.
- Scattering to the areas more than 2 m away distances is not recommended.
- Wait until the material scattered over the surface is moisturized enough by absorbing the water content of the concrete. The moisture level can be tracked by the colour change.
- The surface should be compacted by a low speed mechanical trowel.
- Water addition to the surface where the hardener applied is not allowed.
- Final finishing can be made manually or by mechanical trowel.
- Looseness or laitance on the surface indicates that concrete is still fresh.
- Unless the concrete reaches the minimum required hardening conditions, the surface should be compressed by low speed tray finishing and then final knife finishing should be made with high speed.



Tecnica 34 DS

Technical Properties

(at 23°C and 50% RH)

Appearance / Colours	Red/Green/Gray/Natural powder
Shelf Life	12 months
Consumption	4 - 8 kg/m ²
Surface Temperature	(+5°C) – (35 °C)
Compressive Strength (7 days, EN 196-1)	80 N/mm ²
Abrasion Resistance (28 days, TS 699)	≤ 2,0 cm ³ / 50 cm ²

Post-Application Protection & Suggestions

- Do not apply in high weather current conditions.
- Do not use on concrete surfaces with fly ash content due to its low workability.
- Water and cement content properties of the concrete may cause slight colour variances.
- Protection against environmental effects and clean application provides colour consistency.
- Colour shading during the drying process is natural.
- Correct timing and trowelling techniques are obligatory.
- The surface and medium temperature should be within 5-35 °C.
- Low temperatures decrease and high temperatures increase the application speed.
- Efflorescence may occur at relative humidity conditions lower than 40%.
- Late curing and hardening may occur at relative humidity conditions higher than 80%.
- Anti-slip surfaces can be provided by chemical abrasion method.
- The impact and abrasion resistance of the surface increases by the surface hardener application, the mechanical strength of the concrete is not affected.
- Curing process is required after Tecnica 34 DS application. Tecnica 22 CW is recommended.
- Shelf life is valid for appropriate storage conditions without opening the pails.
- The tools and equipment used should be cleaned with water immediately after the application. The residues can be cleaned mechanically after hardening.
- For further information refer to the safety data sheet.

Storage

- Packages should be kept dry and cool at between +5°C and +35°C in moisture free conditions. Avoid direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Shelf life is maximum 12 months conditional to complying with the above mentioned conditions.

Packaging

- 25 kg multi-ply paper bags.

Quality Certificates

EN 13818

