

STRATUM 110

Liquid floor hardener and dust proofer

DESCRIPTION

STRATUM 110 is a clear, liquid floor hardener based on sodium silicate, which penetrates into new or existing concrete or screed surfaces and chemically reacts with any free lime, binding it together to both harden the surface and reduce dusting. **STRATUM 110** increase abrasion resistance and reduces permeability over untreated concrete and can be used both internally and externally.

USAGES

- Enhancing concrete floor surface properties
- Provide an abrasion resistant concrete floor surface
- Industrial floors, workshops, warehouses, car park and loading bays
- Dustproofing of concrete slabs

ADVANTAGES

- Easy application
- High abrasion and impact resistance
- Good adhesion to concrete
- No dusting-surface
- Enhance durability of concrete floors
- Easily cleanable
- Provides a hard-dense surface resistant to oils and petroleum-based products
- Economic installation

TECHNICAL DATA

STRATUM 110

Appearance

Density
(ASTM D1475)

Surface hardening
(ASTM C805)

Typical values

Clear hazy liquid

70 N/mm²

25% change

USAGE INSTRUCTIONS

1. Surface preparation

No special preparation is required before the application of **STRATUM 110**, however concrete and screed surfaces particularly if new, should be fully cured with a maximum residual relative humidity (RH) of 75%.

Ensure surfaces are clean and free from contamination such as dust, oil, grease, organic growth, and release agents.

2. Priming

No priming is required for this product.

3. Mixing

Stir the material to mix any solid materials that may have settled at the bottom of the packaging, until a homogeneous consistency is achieved.

CHEMICAL RESISTANCE

STRATUM 110

Mild acids

Caustic soda

Calcium chloride

Soaps

Bleach

Solvents

Oil/Grease

Concentration

70%

60%

60%

100%

100%

70%

100%

STRATUM 110

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Coverage

5 – 7m²/liter/200-250 μm

4. Application

STRATUM 110 will react with any free lime in the concrete or screed surface. Avoid application of excess material as after the reaction has taken place with the free lime, **STRATUM 110** no longer becomes effective.

Only 2 coats of **STRATUM 110** are recommended.

Apply the first coat of **STRATUM 110** using a soft broom or rollers to a theoretical coverage rate of 6.5 m² per liter in a continuous uniform coating until the surface becomes saturated, avoiding puddles or excess material.

As soon as the surface becomes dry but no longer than 24 hours after the first coat using the same method mentioned above.

Within the 24 hours post application of the second coat, wash the entire treated area with **COPIOUS AMOUNTS OF DRINKING QUALITY WATER** to remove any residue of the material that has not reacted with the free lime. Failure of following the above instructions will result in white patches as a result of the re-crystallization process from evaporation.

Any subsequent white patches which form must be removed by hard scrubbing with stiff brushes and clean water. The longer the patches are left, the harder they will become to remove.

We recommend the use of the line marker, a high build epoxy coating for any road lining or markings, however, this should be applied and cured prior to the application of **STRATUM 110**.

5. Curing

After application, allow the concrete or screed surface to dry completely before opening to traffic.

PACKAGING

STRATUM 110 is supplied in 200 liters drums.

HEALTH & SAFETY

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

STORAGE & SHELF LIFE

STRATUM 110 shall be stored in normal conditions away from extreme temperatures, and any source of moisture. Shelf life is 12-months.

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation.

Please contact:
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