

IDEAL HARD PLUS®

Densifier and silicate based chemical hardener for concrete and decorative cementitious coatings

Description

IDEAL HARD PLUS® is a silicate-based ecological and VOC-free (Volatile organic compound) densifier and hardener for concrete floors and for cementitious coatings. It penetrates untreated surfaces, increasing their resistance with a dustproofing effect. It is particularly suitable for indoor use as it does not require subsequent washing with water. The "Water Saver Technology" also makes IDEAL HARD PLUS® an eco-friendly and easy to apply product.

Features

- Densifies and makes concrete floors resistant to wear and has a dustproofing effect.
- In Microtopping® applications it is used between the various coats, densifying and strengthening the package.
- Requires no washing or rinsing with water.
- Reacts instantly on contact with cementitious material
- It does not alter the slip-resistance of the floor.
- Effective on both new and old floors
- UV stable with no yellowing or discolouration
- Ideal for both inside and outside.

Fields of use

IDEAL HARD PLUS is suitable for new or existing concrete and for cementitious coatings. It is recommended for floors subject to high foot traffic such as offices, retail areas and public spaces and wherever greater surface resistance is required. It is recommended to reinforce the package in the Microtopping® application cycle.

Application

In the Microtopping® application cycle

It is sprayed diluted 1:1 with water on the intermediate coats before applying the next coat.

Application on existing concrete floors

On existing and fully cured concrete, remove any damaged parts and fill holes, cracks and deteriorated areas. Remove all residues, oil, sealants, waxes, resins, contaminants and cement grout.

Apply with a low-pressure mist sprayer, uniformly saturating the surface with undiluted IDEAL HARD PLUS®, at a rate of not less than 70-100 g / m² (7-10 m²/litre).

Do not step on while drying (2-4 h). After drying, remove any excess dust residue with a rigid broom or a mono brush (buffer machine) equipped with a soft dry disc (white or red). After 24 hours the resin/sealer can be applied.

Application on new concrete floors

Allow the concrete to mature at least 7 days after casting. If the use of a curing agent is necessary, use only IW-CURE (consult the technical data sheet). Once the curing period is over, treat the new concrete surfaces as described above in the application section.

Application on polished-smoothed concrete floors

Once the sanding/polishing phase 400 has been reached and completed, apply a uniform saturation coating of IDEAL HARD PLUS® at 70 g / m² (7-10m²/litre), avoid pooling of the material. Once dry, proceed with the subsequent sanding steps. After passing with the 800 grit, uniformly apply the second coat of IDEAL HARD PLUS® at 50 g / m² (20 m²/litre) and allow to mature 2-4 hours before proceeding to the final step. No rinsing with water is required.

Technical information

Flash point	Non-flammable
Viscosity	Similar to distilled water
Ph	10.9
Specific weight	1.10
Colour	Transparent
Weather and UV resistance	Excellent
Superficial perspiration	Optimal
Abrasion resistance, AS®-C-779	+0.6-0.8
VOC, gm/l	0

Coverage

As a densifier in the Microtopping® package:

diluted 1: 1 with water 100 g of undiluted product /m².

As a surface hardener on concrete surfaces:

undiluted product 70-100g /m²

As a surface hardener on polished concrete surfaces:

undiluted product 120 g m² for both coats.

Packaging / storage / disposal

IDEAL HARD PLUS® is available in packs of 10 L.

It can be kept for approximately 24 months in the original sealed containers at a temperature between 5°C and 30°C

Warnings

Immediately remove any fragments of glass, metals and other materials that could be damaged with water.



Avoid contact with skin, eyes and clothing. Wear protection for skin and eyes. Wash thoroughly after handling. Do not swallow. Consult the safety data sheet. Do not dilute

IMPORTANT

All information contained herein is based on the best and most recently available practical and laboratory testing. It is the customers responsibility to determine that the product is suitable for their chosen application. The manufacturer assumes no responsibility for the results of incorrect applications. You should always test on a small area before full scale application. This document replaces all previous versions. The data can be changed at any time. Also note that the products are intended for professional use only. Ideal Work provides training, updates and refresher courses for their regular customers on request. Anyone using these products without being enabled does so at their own risk.

ED. 01 dated 10.06.2017 - REV. 01 dated 25.03.2020