

## IDEAL HARD PLUS<sup>®</sup>

Silicate densifier, hardener and sealer for concrete surfaces with “Water Saver Technology”

### DESCRIPTION

IDEAL HARD PLUS<sup>®</sup> is a VOC-free, environmentally friendly silicate concrete floor densifier, hardener and sealer. This product penetrates bare concrete surfaces and transforms them into a permanently dust free floor with a prideful gloss that gets better with age.

This floor does not need any washing, any cleaning, and moreover, the “Water Saver Technology” makes IDEAL HARD PLUS<sup>®</sup> environmentally friendly and easy to apply. This product may be applied to new and existing, cured concrete as a chemical hardener, dust-proof and densifier to improve surface durability and appearance. IDEAL HARD PLUS<sup>®</sup> is also very effective on polished concrete surfaces to harden, densify and protect their attractive and durable finish.

### USE FIELD

IDEAL HARD PLUS<sup>®</sup> provides long lasting dustproof performance on high traffic concrete floors, including retail offices, stores, shopping malls, municipal buildings, sports sites, stadiums and other commercial buildings. IDEAL HARD PLUS<sup>®</sup> is moreover appreciated in projects seeking LEED certification.

It is also appropriate for factories and warehouses, pharmaceutical plants, textile mills, automotive, truck and train terminals and laundries as well as in food processing plants such as meat packing plants, canning factories, breweries and bakeries. Thanks to its great performance, it is moreover much appreciated for floors of logistics and transport firms.

Another area where it is used concerns the protection of the decorative concrete surfaces, such as ‘Nuvolati’ and Microtopping floors.

**Do not apply IDEAL HARD PLUS<sup>®</sup> on Reactive stain floors, the product is not compatible with reactive stain colours. In this case to protect the floor is recommended to use IDEAL HARD.**

### FEATURES & BENEFITS

- Densifies and makes the concrete floors resistant to wear and dust-proof.
- Water Saving Technology. No washing and no flushing residue with water
- Reacts instantly upon contact with floor surface
- Produces surface gloss which improves with age
- Reduces water absorption and contributes to floor sweating
- Does not alter the slipperiness of the floor. High traction, anti-slip properties for safe floors
- Effective on both new and old floors
- UV stable. Will not yellow, flake or discolour
- Suitable for interior and exterior floors
- VOC Compliant. Non-flammable, Odorless.
- Easy to maintain, no waxing necessary.

## TECHNICAL DATA

Active Solids	100%
Flash Point	None
Viscosity	Similar to distilled water
pH	10.9
Specific Gravity	1.10
Color	Transparent
Weathering, UV test	Excellent
Surface Breathable	Very Good
Skid Resistance, AS®-E-303	Good
SCOF- Wet or Dry-	
Abrasion Resistance, AS®-C-779	+0.6-0.8
Increased Wear Resistance	+200-400% (according to substrate)
VOC, gm/l	0

## APPLICATION

### Application on old concrete floors:

On existing and cured concrete floors, remove unsound concrete and fill holes, cracks and deteriorated areas. All residues, oil, sealers, waxes, contaminants and laitance must be removed to assure maximum penetration.

Apply one saturating coat of IDEAL HARD PLUS® in a uniform manner, at a rate of 10 m<sup>2</sup>/liter. Install with a low pressure sprayer or other device, maintaining a wet surface sheen for 15 to 20 minutes. Apply more IDEAL HARD PLUS® to areas that are more porous and appear to readily absorb the material. Redistribute any excess of IDEAL HARD PLUS® with soft broom or microfiber pad, allowing material to dry uniformly.

Avoid brooming once drying begins. After drying, remove any excess, powder-like residue with a stiff broom or a broom provided with dry soft buffer (white or red).

### Application on new concrete floors:

For best results, allow the concrete to cure for at least 7 days after casting. If a Curing Compound is required, use only L&M CURE. After the curing period, treat the new concrete surfaces according to the descriptions above in the application chapter.

### Application on diamond polished concrete floors:

After the 400 diamond grit step has been reached, apply one uniform, saturating coat of IDEAL HARD PLUS® at 10m<sup>2</sup>/liter keeping the surface wet for 15 to 20 minutes. Do not puddle. When dry, proceed with additional required polishing steps. After the 800 grit level and before the final polishing step, uniformly apply second coat of IDEAL HARD PLUS® at 20 m<sup>2</sup>/liter. Allow to dry and remove any residue with polishing diamonds. No water flush is required.

## RESTRICTIONS

Protect from frost. Apply at temperatures over 5° C and not below 35° C.  
Do not use any acid-based or high-alkali cleaning products on treated surfaces.  
All leaks must be immediately cleaned.

No effect on lightened concrete, extremely porous or very worn floors. IDEAL HARD PLUS<sup>®</sup> is not a curing product. The concrete aged less than 3 to 4 days contains too much humidity that can prevent IDEAL HARD PLUS<sup>®</sup> from penetrating thus reducing its action.

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## STORAGE/SHELF LIFE

IDEAL HARD PLUS<sup>®</sup> is available in 10 litre containers.

The IDEAL HARD PLUS<sup>®</sup> containers are to be sealed and stored in a clean, dry place above 4°C (40°F). Shelf life is two years in unopened containers when properly stored. Do not freeze.

## PRECAUTIONS

Avoid contact with skin, eyes and clothing. Wear skin and eye protection. Wash thoroughly after handling. Do not take internally..

Please refer to the Product Material Safety Data Sheet (MSDS) before using.  
Immediately wash off with water all overspray from glass, metal surfaces and other materials which may be damaged. Do not dilute.

## ONLY FOR PROFESSIONAL USE

### IMPORTANT:

All information contained in this sheet are based on the best laboratory practices. The customer should check that the product is suitable to the use it is destined to. The manufacturer will not be held responsible for any wrong application results. We recommend to always carry out samples on small surfaces before the application. This sheet replaces and cancels any previous ones. The data contained in it can be changed at any time. We remind you that Ideal Work products are destined to professional use and Ideal Work provides periodic training to all customers that will request it. Anyone using these products without authorization, does it at its own risk.

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