ULTRALIT HARD STANDARD

LIQUID DENSIFIER, DUSTPROOFER FOR CONCRETE
HIGHEST LITHIUM CONTENT IN THE INDUSTRY

DESCRIPTION

ULTRALIT HARD STANDARD is a water-based high solid lithium densifier used to densify, harden, dustproof new or existing concrete floors. Active lithium content of the product comes into chemical reaction with concrete components and form insoluble calcium silicate hydrate (CSH) that increases surface hardness, reduces dusting, makes maintenance of the floor easy. As the silicate-concrete chemical reaction is formed internally in upper layer of concrete, the protection of ULTRALIT HARD STANDARD is much more durable than traditional surface coatings and sealers, it will never peel or debond and is unaffected by moisture.

BENEFITS

➤ Highest lithium content in the industry – up to 11%.

➤ Active ingredients: 100% of total solids.

➤ Fast hardening and dustproofing – days instead of months.

➤ Can be applied to concrete of any age.

➤ Excellent penetration: 2-8 mm on steel trowled concrete.

➤ Increases abrasion resistance by 15-40%.

➤ Does not contribute to surface ASR or promote crazing.

➤ Good stain and water resistance.

➤ Does not change floor friction coefficient - no change of slip resistance.

➤ Very fast application: minutes instead of days.

➤ Cost Effective solution - the least expensive densifying system per m².

➤ Absolutely "GREEN" and Planet Safe, water based, no VOCs.

CAN BE APPLIED ON NEW OR ANY AGE CONCRETE FLOORS OF

➤ Shopping malls

➤ Supermarkets

➤ Parking garages

➤ Airport hangars

➤ Warehouses

➤ Distribution centers

➤ Manufacturing plants

➤ Schools and universities

➤ Medical facilities

➤ Office buildings and others…

PHYSICAL PROPERTIES

Form	Clear liquid
Specific Gravity	1.10
pH	10
Solids Content	11%
Active Content	100% of total solids
VOC Content	< 20 g/L
Freeze Point	0°C
Flash Point	Non Flammable
Shelf Life	2 years in original, unopened package

PACKAGING

ULTRALIT HARD STANDARD is packed in 5, 20, 30 liter cans; 200 liter drum; 1000 liter container

ESTIMATED COVERAGE RATES

➤ Freshly placed uncured concrete: 15-20 m²/L (50-65 mL/m²).

➤ Steel troweled cured concrete: 10-12 m²/L (85-100 mL/m²).

➤ Cured honed / polished concrete: 10-15 m²/L (65-100 mL/m²).

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APPLICATION

Precautions / Limitations:

➢ Always clean surface to remove any dirt, laitance, curing compounds or coatings that may prevent ULTRALIT HARD STANDARD from penetrating the surface.

➢ Apply only when temperatures will be above 2ºC for at least 4 hours following application.

➢ In hot conditions, it may be necessary to spray water on hot concrete to cool the surface prior to application ULTRALIT HARD STANDARD.

➢ Protect metal, glass, wood, paint or brick from contact with ULTRALIT HARD STANDARD. If accidently oversprayed on these surfaces, wash surface with clean water immediately.

➢ In all cases consult the Material Safety Data Sheet before use.

Application procedure:

➢ There is no need for surface preparation when ULTRALIT HARD STANDARD is applied on freshly finished concrete. Saw cut control joints after final surface preparation. Clean concrete of saw debris or any dirt or residue.

➢ In case of existing concrete remove all dirt, debris or curing compounds. Allow clean surface to dry. It is recommended to grind and level the concrete surface with an orbital floor machine or diamond grinding machine equipped with a 100 to 400 grit diamond discs or diamond abrasive pad depending upon desired exposure and size of the aggregate.

➢ Using a low-pressure sprayer, apply a single coat of ULTRALIT HARD STANDARD at a rate that covers the surface, but does not produce puddles. In case of freshly placed concrete – average coverage rate 15-20 m²/L, in case of existing concrete -10-15 m²/L. Treated surfaces should stay wet for 10-15 minutes following initial application. Uniformly spread the product in a thin layer using a microfiber pad that should be pre-moistened with ULTRALIT HARD STANDARD prior to use. Treat porous areas that dry in less than 10 minutes with one more layer.

➢ Let treated surfaces dry thoroughly, typically 1 hour max.

➢ In case of freshly placed concrete immediately apply the specified curing compound or initiate the specified curing procedure.

➢ On existing concrete to achieve desired glossy finish, use progressively finer diamond discs and continue grinding from 800 to 3000 grit.

➢ If the floor joints are to be illed after ULTRALIT HARD STANDARD has been applied, they must be thoroughly cleaned before installation of joint filler. Cleaning joints by circular concrete saw or a grinder equipped with a wire wheel is recommended.

➢ Surface is ready for use when dry, but the complete reaction may take up to two weeks to develop depending on site temperature and conditions.

➢ Clean brushes, tools, equipment and sprayer with potable water immediately after use.

MAINTENANCE

Do not use acidic cleaners (with pH below 7) to maintain treated floors. Though ULTRALIT HARD STANDARD will improve stain resistance of concrete floor, some acidic products may leave a stain if left on the surface. Clean up all spills promptly to minimize possible damage. Daily removal of surface dust with a microfiber pad or dry dust mop will help to maintain the desired appearance. Regular maintenance cleaning with auto scrubber will improve surface shine.

SAFETY / HEALTH INFORMATION

Keep out of reach of children. This product is alkaline. Do not drink. If swallowed, drink large quantities of water. Do not induce vomiting. Seek medical attention immediately. Keep container closed tightly when not in use. Wear goggles and gloves. If splashed in eyes, rinse eyes immediately with clean water and seek medical attention if irritation persists. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

CUSTOMER SUPPORT

ULTRALIT HARD STANDARD is available worldwide. For technical assistance, product information, Dealer location – visit our web site at www.ultralit.eu or email at info@ultralit.eu.