

TECHNICAL DATA SHEET

USE

As a surface hardener for new and old concrete floors to prevent dusting and to increase durability.

- Suitable for use on concrete and granolithic surfaces
- Typical applications include industrial floors, light engineering works, warehouses, animal feed and milk parlours, abattoirs, car parks, dams, reservoirs, tanks, silos and flues.
- As a case hardener for pre-cast products.

ADVANTAGES

- Highly durable, improves abrasion resistance and reduces chemical attack from oils and greases.
- Easy to apply, no special equipment or skills required.
- Eliminates dust formation from within the treated surface.
- Economical and low cost method of floor protection.

DESCRIPTION

Densifier is a water based premium hybrid multi-silicate densifier

Unlike typical densifiers, ULD-502

Densifier penetrates concrete surfaces at different levels ensuring hardening of the wear surface regardless of porosity

PROPERTIES

Penetration	ULD-502 is a penetrative resulting in a more durable finish better than that of other surface treatments which merely form a superficial skin
Hardness	The surface hardness is achieved through a chemical reaction within the cementitious material.
Anti-dust	The chemical elimination of free lime and other soluble particles creates a tightly bound surface resistant to dusting.
Chemical resistance	ULD-502 application reduces the absorbency of the surface and improves resistance to solvents, greases and commonly used chemicals.

INSTRUCTION FOR USE

PREPARATION

Surfaces to be treated with ULD-502 must be structurally sound and free from loose materials. Cracks or holes can be repaired using a recommended Ultraepoxy repair material which should be allowed to cure prior to proceeding.

Oil and grease contaminated surfaces should be treated with a suitable chemical de-greaser followed by washing with clean water and allowed to dry

Any laitance or existing coating must be removed prior to application as these will prevent the ULD-502 from penetrating

New concrete floors must be allowed to cure for 14 days prior to treatment. Coloured floors should be allowed to cure for 28 days prior to treatment and a small area tested with ULD-502 to assess the effect on the colour

ULD-502 must only be applied to dry surfaces to maximise penetration.

MIXING

Dilute in suitable containers 1 part of ULD-502 with 3 parts of water and stir until a smooth homogeneous consistency is achieved.

APPLICATION

Ensure that the surface to be treated is dry and apply.

Allow the solution to be absorbed into the floor for a period of up to 2 hours, any solution not absorbed after this period should be removed. Failure to do so will result in the formation of a weak, glossy surface film following the drying.

Normally a two or three coat application is recommended for complete treatment, however, very dense, well trowelled surfaces such as granolithic toppings, power floated or vacuum dewatered concrete will generally require only a single coat.

If a second application is necessary, reapply the solution after 24 hours ensuring that the floor is dry. All surplus solution must be removed as stated previously. The same procedure will apply for a third application if required.

Technical Data Sheet

CRYSTAL APPLICATION

If the finished surface needs to be highly polished, the following procedures must be followed:
Grind the surface with 800 mesh grinding sheet to open the surface pore and improve the degree of permeability ,also do the primarily treatment before the above standard application.For the surface with high smoothness ,don't grind too much to avoid any scratches to keep the appearance and aesthetics.

Clean the surface with water vacuum to air drying. Apply ULD-502 according to the above standard method after the surface becomes totally dry (about 24 hours). Follow the below procedures on the second day : Grind the substrate 1-2 times with 1500-3000 mesh grinding sheet according to the substrate situation. When dealing with grinding ,ULD-502 can be applied one more as appropriate until no penetration appears.

Note: Do not grind too much to avoid any damage to the surface.

When the requested smoothness is obtained, clean the surface completely, and if polished with water, absorb the surface to be dry meanwhile. Brush the floor wax with high hardness onto the floor surface and dry in air. Do not apply too much.

Polish with white or grey depending on the actual situation to obtain the requested crystal gloss and smoothness. Too much polishing should be avoided.

CURING

No special curing is needed for ULD-502 except the floor can not bear traffic before the surface is dry

STORAGE AND HANDLING

Store product in a cool, dry area.
Keep containers upright and tightly closed when not in use. Do not allow product to freeze, and discard if product has been frozen.
Product has approximate shelf life of 1-year in factory-sealed container stored properly.
Maintain temperatures of 45-105°F (7-40°C).
Dispose of unused product in accordance with all local, state and federal regulations.

WARRANTY

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TECHNICAL DATA

Product	Concrete Densifier ULD -502
Mix Ratio (by volume)	1A : 3B (B=Water)
Coverage	500-750 square feet per US gallon
Volume	5 Gal / 56lb

Note: Coverage figures given are theoretical - due to wast age factors and the variety and nature of substrates, practical coverage figures may be reduced, this will vary with site and application conditions

In accordance with Commercial or Health & Safety require ments packaging detail may alter. Please contact your local Ultraepoxy office for detail

DISPOSAL

Dispose in accordance with federal, state and local regulations.

SDS

PLEASE SEE SAFETY DATA SHEET (SDS) FOR SAFETY AND PRECAUTIONS. USE PRODUCT AS DIRECTED. KEEP OUT OF THE REACH OF CHILDREN

CLEANING

All the instruments should be cleaned immediately with clean water after the application is finished. Cured materials can only be removed mechanically.