



AT A GLANCE

- Natural Look
- Easy to Trowel & Finish
- Reduce Lime deposits
- Less dusting
- CE Marked
- Design Options

- Higher Performance
- Higher Abrasion Resistance
- Higher Impact Resistance
- Indoor & Outdoor Application
- High Adhesion
- No contamination from base concrete

DESCRIPTION

Deko Hydrated is manufactured from mineral aggregates, special modified Portland cement, polypropylene fibers and chemical additives. It is applied by dry shake method and hydrated with ProHydrate in the process on freshly laid, damp concrete.

ProHydrate reacts chemically with the Deko Hydrated powder component and form a denser layer with greater impact and abrasion resistance. It reduces the risk of surface spalling/cracking and limit the formation of dust and lime deposits in the surface. It comes in a design range to with the possibility to create Micro Terrazzo.

Due to our own production of uniquely shaped aggregates, special bonding cements and Pro-Hydrate the adhesion of Deko Hydrated is extraordinary. It is apt for extreme high traffic and can be used in industrial and commercial concrete floors. Wear resistance is A5 on the Böhme scale.

Fields of application

Deko Hydrated is made improve the surface hardness and wear resistance on industrial, commercial or residential concrete floors indoor or out door. Warehouses, DIY stores and supermarkets, car parks, work shops, loading bays, exhibition centers, pedestrian areas, stores, factories, schools, logistic centers etc.



**TECHNICAL
PROPERTIES
AND
CHARACTERISTICS**

TRAFFIC INTENSITY & AGGREGATES	Aggregate composition	Hardness (mohs scale)	Traffic intensity
DEKO HYDRATED	HARD AGGREGATES	7-9	High

C = Compressive Strength. F = Flexural Strength. A = Abrasion Resistance. SH = Surface Hardness. Kg/m² = Consumption

C (N/mm ²) EN13892-2	F (N/mm ²) EN13892-2	A BCA	A Böhme	SH EN13892-2	Kg/m ²
C75	F11	AR 0,5	A5-A3*	SH1900	6-15 kg/m ²

*Depending on the aggregates used.



Deko Hydrated

High Performance Wear Layer

Application

Use ProHydrate (Nano Silica) at multiple stages together with Deko Hydrated powder to maximize amount of powder and to ensure even colors. Apply on the concrete base as evenly as possible. Observe that a lower "slump" reduces the color differences in the top surface. Apply first coat of ProHydrate immediately after manual screed using a low-pressure sprayer. Apply a single, saturating application of ProHydrate - approx. 400 sq ft/ US gal (10 m²/liter), and work ProHydrate into the surface with a bull float to ensure it is worked deeply into the cement matrix. When you are able to walk on the surface and the "foot mark/print" is approx. 1-3 mm, open the surface with trowel pans and apply 4-6 kg/m² of the Deko Hydrate powder. Apply as even as possible with sprinkling carrier or other application tool. Let the dry shake absorb moisture from the sub base. Power trowel first layer into the surface with trowel pans.

NOTE! Before applying first layer of Deko Hydrate open the surface with trowel pans and get moisture from the sub base.

Spray ProHydrate a second time (5-10m²/liter) over the first layer of Deko Hydrated. Start applying second layer of Deko Hydrated with approx. 2-4 kg/m² immediately after spraying ProHydrate. Let the dry powder absorb moisture from the sub base before working it into the surface through power troweling.

If Deko Hydrated does not absorb enough moisture from the sub base, you can spray another fine mist (20m²/liter) of ProHydrate over the second layer of Deko Hydrated powder and continue troweling with pans. If needed, spray third mist (5-10m²/liter) of ProHydrate over the second powder layer. Start applying third layer of Deko Hydrated with, approx. 1-2 kg/m² immediately after spraying ProHydrate. Let the powder absorb moisture from the sub base, before working it into the surface with power trowel.

If the powder is not absorbing enough moisture from the sub base, you can spray a fine mist (20m²/liter) of ProHydrate over the third layer of powder and continue troweling with pans. Finally, power trowel the surface with finishing blades. If you use white or very clear colored dry shakes use only plastic pans and blades.

After 5-7 days grind and polish the surface to the desired gloss level and aggregate exposure.

Concrete placement/Finishing

Concrete mix designs, placement/finishing should be performed in accordance with the guidelines of ACI 302 or TR34 4th edition (UK). The concrete supplier should ensure that cement contents, w:c ratios, slumps are generally in accordance with the following minimum standard:

Cement: Min 350 kg/m³

W:C ratio: Max. 0.50, Min. 0.40

Slump: Ideally 75mm

Strength: Min 31N/mm²

Air: Max 3%

Avoid applying in extreme temperatures. Avoid addition of water during application of the Deko Hydrated.





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PRODUCT DATA SHEET

Deko Hydrated

High Performance Wear Layer

Production, packaging, storage and validity

Deko Hydrated is sold in bags of 25 kg, 30 kg or 500 kg or 1000 kg big bags palletized. Store the bags in a dry place and protected from extreme temperatures. Respected storage conditions, product is valid for 1 year from the date of manufacturing.

Cracking and user responsibility

Cracking, delamination and micro spalling is reduced, but not eliminated by using Deko Hydrated. These problems are caused by the use of bad concrete, the application, weather conditions, curing etc. because Etonsurfaces Inc. cannot be responsible for problems related to cracking, micro spalling or delamination.

Recommendations

Avoid applying in extreme temperatures. Avoid addition of water during application of the Deko Hydrated. Use Pro-Hydrate. The concrete should have a correct content of cement.

WARNING: DO NOT BREATHE DUST. AVOID CONTACT WITH SKIN AND EYES.

Use material in well-ventilated areas only. Exposure to cement dust may irritate eyes, nose, throat, and the upper respiratory system/lungs. Silica exposure by inhalation may result in the development of lung injuries and pulmonary diseases, including silicosis and lung cancer. Seek medical treatment if you experience difficulty breathing while using this product. The use of a NIOSH/MSHA-approved respirator (P-, N- or R-95) is recommended to minimize inhalation of cement dust. Eat and drink only in dust-free areas to avoid ingesting cement dust. Skin contact with dry material or wet mixtures may result in bodily injury ranging from moderate irritation and thickening/ cracking of skin to severe skin damage from chemical burns. If irritation or burning occurs, seek medical treatment. Protect eyes with goggles or safety glasses with side shields. Cover skin with protective clothing. Use chemical resistant gloves and waterproof boots. In case of skin contact with cement dust, immediately wash off dust with soap and water to avoid skin damage. In case of skin contact with wet concrete, wash exposed skin areas with cold running water as soon as possible. In case of eye contact with cement dust, flush immediately and repeatedly with clean water, and consult a physician. If wet concrete splashes into eyes, rinse eyes with clean water for at least 15 minutes and go to the hospital for further treatment.

LIMITED WARRANTY

Etonsurfaces Inc. warrants its materials to be of good quality and, at its option, will replace or refund the purchase price of any material proven to be defective within one (1) year from date of purchase. The above remedies shall be the limit of Etonsurfaces Inc.'s responsibility. Except for the foregoing, all warranties expressed or implied, including merchantability and fitness for a particular purpose, are excluded. Etonsurfaces Inc. shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials.