

ColorTop® 205

Dry shake, color floor hardener for stamped concrete application

Description

ColorTop 205 is premium quality color hardener for decorative concrete floors. **ColorTop 205** is developed to be applied using dry shake application technique to fresh concrete floors.

ColorTop 205 is used where dust free color surface is required. It enhances the durability of the concrete floors. Abrasion and impact resistance will be developed and compressive strength will be upgraded.

Features and benefits

- Applied monolithically to the surface of freshly placed concrete floor.
- Will be an integral part of the concrete floor surface and will not peel off.
- Improved durability: reduced permeability, improved compressive strength, abrasion and impact resistance compared with concrete floor under the same conditions.
- Provides dense non dusting surface.
- Could be stamped to different shapes with attractive colors.

Recommended for

ColorTop 205 is used as a color floor hardener where decorative concrete floors are required. It is part of ACC Stamped Concrete Flooring System which can be used in the following applications:

- Walkways, corridors and sidewalks.
- Pool decks, beaches and yards.
- Terraces and lobbies.

These areas are widely available in commercial and residential areas such as compounds, resorts, clubs, schools, gardens, shopping centers, private villas and recreation parks.

Composition

ColorTop 205 is composed of high strength Portland cement, well graded quartz, additives and pigments.

Packaging

ColorTop 205 is available in 25 kg bags.

Coverage

Dark colors : 3 - 5 kg/m².
Light colors : 4 - 6 kg/m².

Note:

Coverage rate takes no account of wastage and may vary according to surface condition and application method.

Technical data

Powder density	1.7 kg/liter
Compressive strength	>40 N/mm ²
Abrasion resistance	>80% improvement in abrasion resistance compared to control concrete
Colors	Dark grey, beige, yellow, orange, brick red, brown, green and blue

Mix design

Good concrete mix design is a major issue. The concrete floor should have the following minimum requirements:

Cement content : >300 kg/m³
W:C ratio : 0.4 – 0.5
Air content : < 3%
Slump : 7.5 - 10 cm
Slab thickness : 10 cm minimum.

The concrete type, the slab thickness and the amount of the steel reinforcement used in the concrete floor slab are very important design factors that will affect the overall performance of the concrete floor.

Application

- Formwork should be divided into panels with suitable dimensions as per project's specifications using good quality formwork.
- After concrete is placed at the designed thickness, it should be vibrated and leveled

using straightedge aluminum bar. Then, it should be finished with wooden float.

- In hot weather, ensure that dry sprinkling process takes place at the correct time especially under direct sunlight. This will avoid forming hard outer layer (i.e., drying out the first 5-10 mm of the surface while the concrete floor is still wet).
- **ColorTop 205** is preferably sprinkled onto concrete floors which is neither too wet nor too dry. Wait approximately 30 minutes at 30°C.
- Start sprinkling **ColorTop 205** along the edges of the concrete floor bays at 80–100 mm strips. Float it into the fresh concrete using wooden float.
- **ColorTop 205** is to be broadcasted by hand uniformly onto the fresh concrete. Then, float it into the fresh concrete using wooden trowel.
- Spread **ColorTop 210** on the troweled surface. Then stamp it using suitable texturing tools.
- Remove the texturing tools ensuring that the required texture is achieved.
- Leave the concrete floor to dry for 24 hours and then wash it with clean water to remove the excess quantity of **ColorTop 210**.

Curing

Curing is very important to ensure that the optimum characteristics of the floor are obtained. Always cure with tap water. Begin curing as soon as the final setting is achieved. Cover the work with plastic sheet fixed over wet hessian. Keep damp for 5 days.

Protection

Fresh concrete floor should be blocked off against foot traffic for 2 days. Light vehicle traffic is allowed after 7 days. Cover the floor to protect it from any construction progress (i.e., masonry walls, plaster, paints ...etc.).

Surface Sealing

Leave the concrete floor for 14 days. Then clean it with water. Ensure that there is no free-standing water on the surface.

Protect the floor with one or two coats of **SuperSeal 222** to get semi glossy floor finish.

Cleaning

Clean tools with water immediately after use. Hardened materials should be cleaned mechanically

Storage and shelf life

To maintain its quality and suitability for use, the product should be stored in its unopened packaging, off the ground on pallets or similar structures, in a cool and dry environment. When stored under these recommended conditions, the product remains suitable for use for 12 months from the manufacturing date stated on the packaging.

Health and Safety

This product contains cement which may cause skin irritation. It may cause allergic skin reaction and eye damage. Avoid breathing dust. Wear protective gloves, eye goggles and clothing. In case of skin contact, wash with plenty of water. In case of eye contact, rinse continuously with water for several minutes and seek medical attention. Dispose excess material to special waste collection point in accordance with local & national regulation. Keep out of reach of children.

For further information, please ask for Safety Data Sheet for this product.

The most up-to-date TDS can be obtained from ACC Customer Service Department, or downloaded from our website: www.acc.com.eg.