

## Technical Data Sheet

# DECOFLOOR CH

## High Quality Colored Decorative Floor Dryshake Hardener

### Description:

DECOFLOOR CH is a quality monitored, colored, floor hardener specially formulated for application as a dry shake hardener over freshly casted concrete. It is a blend of cement hydraulic binder, special hard wearing aggregates silica sand, finest UV resistant, non-fading color pigments and selected additives to provide optimum performance when applied to fresh concrete floors. This blend produces a material which is easy to trowel. Once cured, it provides a dense, non-porous colored surface which is extremely hard wearing and abrasion resistant. DECOFLOOR CH is a cost-effective way to provide the concrete floors with continuous decorative protection against abrasion, wear, impact and chemical resistance for both external and internal application.

### Uses:

DECOFLOOR CH provides a hard surface to concrete toppings in flooring areas where hard abrasion and impact resistant surfaces is required. It is ideally suited to produce colored surfaces subjected to high weathering and abrasion.

When used with stamping mats, a rich appearance of natural stone, or tiles can be produced. DECOFLOOR CH can be used to produce a variety of finishes on colored concrete surfaces. Treated surface can also be polished after minimum 28 days of curing to produce a richly colored superior finish surface. DECOFLOOR CH is an ideal product to produce decorative concrete surfaces on interior or exterior surfaces around pool decks, restaurants, playgrounds, walkways, driveway, warehouses, industrial, commercial, and residential concrete floors.

### Advantages:

- Ease of application. Supplied ready to use, no additives required.
- High abrasion and impact resistance.

- For internal and external use.
- Premixed, ready to use offering factory controlled quality assurance.
- Forms monolithic bond with fresh concrete base.
- Available in a range of colors to improve working environment.
- Non-metallic aggregate, will not rust when wet.
- Non oxidizing.
- Provides a hard dense surface resistant to general chemicals.
- Non-fading, UV resistant colors pigments.

### Instructions for Use:

#### Surface Preparation:

The base concrete should have a minimum cement content of 300 kg/m<sup>3</sup>. Avoid the addition of calcium chloride. Any admixtures (such as super plasticizer) should be used at the minimum dosage possible as excessive amounts could hinder the working of the hardener into the concrete surface. Application of DECOFLOOR CH should begin without delay when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3-6mm. Any bleed water should now have evaporated, but the concrete should have a wet sheen. DECOFLOOR CH should be applied at an even application rate based on application required (refer to consumption table).

#### Application:

It is essential that application over the entire surface is completed while sufficient moisture in the concrete is present to assure proper infusion of the powder into the surface. Therefore, it is highly recommended that required labor, materials and machinery are prepared and made available well in advance of initiating the application. Application of the powder when excessive amounts of moisture are present will lead to poor results and debonding of the colored layer.

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The concrete should first be spread, and vibrated so that it completely covers the area within the formwork. Before the appearance of excess moisture, the surface should be levelled using wood or magnesium floats to the desired level. Do not trowel the surface prior to application of DECOFLOOR CH; as this would seal the surface and therefore make it difficult for the hardener to blend with the top surface. Application to DECOFLOOR CH must begin only after excess and bleed moisture have disappeared from the surface and the floating process would not disrupt the level of the surface, but while the concrete is still in stage plastic.

For proper application, divide the floor into sections of known areas in order to set aside the proper amount of material to be applied. DECOFLOOR CH should be applied over two stage; two thirds of the material in the first application and one third in the second. For application rates higher than 5 Kg/m<sup>2</sup>, DECOFLOOR CH should be applied over three stages, with one half of the material applied during the first stage.

Apply the material by hand uniformly over the surface of the concrete. Machine spreaders may also be used in case of application in large areas. The edges of the slab should be worked first since they set quicker. After each stage, the surface must be thoroughly floated in order to let the material penetrate within the surface. The surface must NOT be troweled between the first and final shakes. For more uniform coverage, the second shake should be done at 90 degrees to the first one. After the application of the final shake, the surface may be finished as desired, once it has hardened sufficiently. Use only high quality tools specifically designed for decorative concrete work such as magnesium floats, stainless steel or blue steel trowels.

## Curing:

Proper curing of concrete floors treated with DECOFLOOR CH is essential to the physical properties of the finished floor. For internal applications, self-curing by covering the treated flooring with polythene sheet taped at the edges would be sufficient.

The use of curing agents is not recommended on concrete that will be later stained. Do not use water curing or curing agents when the concrete surface is

textured in conjunction with DECOFLOOR CH. Ensure the compatibility of curing agents with the sealer if it will be later applied to the concrete surface.

## Standards:

- ASTM C 944

TECHNICAL PROPERTIES	
Color	Cement grey, brick red, brown, green, other colors available upon request
pH	12-13
Compressive Strength @ 28 days (EN12390-3:2009)	70 N/mm <sup>2</sup>
Impact Resistance	50 N impact w/o damage 100 N impact w/ slight indentation
Abrasion Resistance	250% greater than controlled concrete
Staining of oil, automotive oil, lubricants	Resistant
Hardness	7 (Moh's Scale)
VOC	<10 g/lit

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

COVERAGE	
USAGE	CONSUMPTION
Light Duty	3-4 Kg/m <sup>2</sup>
Medium Duty	5-7 Kg/m <sup>2</sup>
Heavy Duty	8-9 Kg/m <sup>2</sup>
Expansion Joints	1.5-2Kg/10 cm strip
Stated consumptions data are for general guidance. Actual consumption depends on the nature of substrate, method of application and wastage	

## Packaging:

DECOFLOOR CH is supplied in 25 kg clean, recyclable paper bags.

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## Storage:

Store in original packing in dry conditions away from direct sunlight and high humidity levels.

## Shelf Life:

DECOFLOOR CH can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

## Cleaning:

All equipment should be washed with clean water immediately after use and before the material hardens. Hardened material can only be removed mechanically.

## Limitations:

- Not suitable for application over self-levelling overlays and other cementitious toppings.
- Sealing of the surface with a compatible sealer is highly recommended to avoid staining of the surface.
- It is essential to ensure good concrete batch-to-batch uniformity in order to avoid color variations from one pour to the next.
- After application, avoid rapid evaporation of water that may cause small superficial fissures appearance due to plastic shrinkage.
- It is recommended to cover the finished floor with impermeable sheets for the initial 24 hours.
- Do not apply the product at temperature less than +5°C or excessive heat or high wind conditions.
- Ensure that enough labors, machinery and material is available to complete treating the whole area before concrete dries.
- Water must NOT be sprinkled or otherwise added to the surface during application or finishing. The necessary moisture for the hardener must come from the concrete in order to develop a proper bond and assure adequate density of the surface.
- Timing of the application, as well as rate of application of DECOFLOOR CH are important.

- For decorative flooring finish. It is recommended NOT to use power floating machines as this would result into a heavy burn works on the surface. Finishing mainly is done by hand troweling or possible by light weight power troweling machine.

## Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapor or spray mist.

## FIRST AID:

Eyes:	In the event of accidental splashes, flush with warm water and seek medical advice.
Skin:	Wash skin thoroughly with soap and water
Inhalation:	Remove to fresh air, keep patient rested
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to DECOFLOOR CH Material Safety Data Sheet.

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