

IDEAL PAVI

Dry shake for industrial floors

DESCRIPTION

IDEAL PAVI hardener is a ready to use, streak free, dry shake, coloured or concrete grey colour hardener for use on interior and exterior concrete flatwork. It has been specially formulated for ease of application and integration on to suitably prepared and freshly laid concrete slabs.

Proper installation of IDEAL PAVI will impart long life and high durability to concrete floors. It can be used inside or outside and is completely non-rusting.

Formulated to be easily incorporated into the surface of freshly placed concrete, IDEAL PAVI produces hard, durable, abrasion-resistant hardscapes and industrial or interior retail floors. Applications for IDEAL PAVI hardener include:

- industrial plants
- warehouses
- shopping centers, showroom floors, plazas,
- hospitals,
- airplane hangars and service garages,
- sewage and water treatment plants,
- driveways, sidewalk, etc.

IDEAL PAVI is designed to harden and densify concrete floors and surfaces both inside and out. Concrete treated with IDEAL PAVI will be resistant to abrasion, dusting, spalling and deterioration.

SUB-BASE PREPARATION

The sub-base shall be well drained and have adequate and uniform load-bearing characteristics. To reduce the likelihood of cracking, the sub-base must be graded to ensure an even thickness of concrete. At the time of concrete placement, the sub-base must be moist but with no standing water, well consolidated and frost-free. If necessary, the sub-base should be dampened with water in advance of concreting to avoid uneven suction and premature drying out of the underside of the slab.

CONCRETE MIX DESIGN

The concrete shall contain a minimum of 320 kg's of cement per m³. All fine and course aggregates must be non-reactive and free of deleterious particles. The water content should be the minimum practical and the maximum slump should not exceed 100mm. The same plant should batch all concrete where possible and the cement be from a single source from start to completion of the area being concreted. Where the slab will be subject to freeze thaw situations an air entrainment agent is recommended in a dose recommended by the manufacturer. **CAUTION: CALCIUM CHLORIDE AND/OR CALCIUM CHLORIDE BASED PRODUCTS MUST NEVER BE USED WITH OR IN COLOURED CONCRETE.** In cooler weather a non-chloride accelerator may be used.

APPLICATION

IDEAL PAVI Hardener should be applied to the surface of freshly placed concrete once any bleed water has disappeared and the floating process will not disrupt the level of the slab. Premature application may affect the durability and require a higher dosage rate.

IDEAL PAVI must never be used to dry excess bleed water. Using the dry-shake method, the material should be broadcast uniformly across the surface, normally in two applications. Two thirds of the material would be used in the first pass, with the final third being applied in the same manner but at 90 degrees to the first.. Do not apply more hardener until moisture from the underlying concrete has been worked completely through the hardener. The concrete must not be steel troweled until after the final application.

Once the final shake has been applied, the surface should be floated, then hand or machine troweled. To prevent burning or darkening of the surface, hard steel troweling (burnishing) should be minimized, especially at the edges and joint lines. The primary cause of delamination of colour hardeners is premature closing of the concrete slab. Premature closing is caused by the float or trowel blades being set at too great an angle with respect to the surface of the concrete slab. This can be prevented by holding the slab open and by delaying the final troweling as long as possible. Keep the angle of the blades of the finishing equipment as flat as possible during all stages of the finishing operation.

COLOURS

IDEAL PAVI Hardener is available in 2 versions:

- IDEAL PAVI EXTRA (silica sand)
- IDEAL PAVI (quartz SiO²>95%) recommended for high traffic areas.

8 standard colours are available for IDEAL PAVI (not IDEAL PAVI EXTRA): Red, Yellow, Grey, Green, Tabaco, Green, Anthracite, Light Blue .

Our laboratories can formulate custom colours but minimum volume limitations may apply. Please ask for information if these are required.

COVERAGE

Volume yield will vary with colour and final use of the slab. It should never be applied at a coverage rate of less than 3 kg's per m². When used on a commercial project where medium traffic, foot and vehicle, is anticipated, a minimum of 3.5 - 4 kg's per m² should be applied. On industrial floors this would be increased to 4,5 - 5 kg's per m² to give increased abrasion resistance. Do not apply more than 6 kg\m².

PACKAGE AND STORAGE

The product is sold in 25 Kg bags and needs to be stored in a dry place.

Shelf life: minimally 6 months from purchase.

IDEAL PAVI contains cement. Bags are to be kept in a cool, dry storage to prevent water contamination. Shelf life is a minimum of 6 months if kept in the factory sealed bags.

IMPORTANT:

All information contained herein is based on the best practical and laboratory tests. It is for the customer to determine that the product is suitable for the intended application. The manufacturer assumes no responsibility for the results of incorrect applications. You should always test on a small area before application. This sheet replaces all previous versions. The data may be changed at any time. Also note that the products are intended for professional use only; Ideal Work provides training for their regular customers on request . Anyone using these products without being trained does so at their own risk.

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