HARPO®

Concrete Hardening Powder

RAMKA
CONSTRUCTION
CHEMICALS

HARPO® concrete hardening powder is a ready-to-use cement-based dry-shake compound for freshly placed concrete. It contains high-quality non-metallic natural and mineral aggregates, cement, and special chemicals. After application and trowelling, it forms a smooth, integrated, hard, abrasion-resistant surface. HARPO bonds strongly to the concrete substrate, reduces permeability, and increases surface durability, helping protect concrete against industrial chemicals, grease, industrial oils, detergents, and hydraulic fluids encountered in aviation industries.

Applications

- Floors in workshops, power plants, garages, car parks, warehouses, loading areas, and factories.
- Floors in shipyards, aircraft hangars, multistorey car parks, car washes, and helicopter landing areas.
- Levelling and strengthening concrete structural floors.

Advantages / Benefits

- Creates a smooth and integrated finished surface.
- Fast and easy application.
- Improved protection at joints by applying more material at the ends of panels.
- Creates an impermeable, non-slip surface.
- Improves resistance to abrasion, impact, and freeze-thaw cycles.
- Can be combined with concrete colours.
- High bond and continuity with the concrete substrate.
- Higher impermeability than comparable untreated concrete.
- Becomes part of the concrete structure and therefore does not blister or delaminate.

Guideline for Use

Use concrete with a suitable mix design in accordance with ASTM and ACI guidance. The concrete must not segregate or bleed and must contain no more than 3% air. When applying over concrete containing microsilica, carefully control the application time. A water-reducing admixture such as QUANTUM is recommended for improved workability. The concrete layer must be at least 75 mm thick. After placement, strike off and vibrate the concrete, then level with a wooden float without over-finishing. Apply HARPO after the surface has dried to a condition that is neither dry nor wet: footprints should remain visible without the foot sinking. At construction and expansion joints, broadcast the product over an approximately 80 mm-wide strip and distribute it with a wooden float. At 35 to 45 °C, the suggested application time is 30 to 40 minutes after concrete placement; below 35 °C, the interval is longer. Broadcast the material by hand from suitable access boards in two stages, ensuring uniform distribution. Allow it to absorb surface moisture until a uniform dark colour appears, then work it into the surface with a wooden float. Apply the balance and repeat after darkening. When the surface supports a person and only slight footprints remain, finish with a power float to obtain a smooth, non-slip surface without overworking it. If final finishing is done with a hand steel trowel, complete it before the concrete hardens against foot traffic. Begin curing immediately after final trowelling using wet burlap or a concrete curing compound. The source recommends curing compound at 1 kg per 5 m^2.

Dosage

4 to 6 kg/m^2. For most industrial applications, 5 kg/m^2 is recommended. The resulting finished layer is approximately 2-3 mm thick.

Storage

+5 to +30 °C; store in a dry, cool place.

Packaging

25 kg bag

Shelf Life

One year from the production date in the original packaging.

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