

CHEMFIT HARDTOP QUARTZ 1200

One Part Preblended Colored Mineral Dry Shake Hardener Comprising Cement, Quartz Aggregates, Admixtures & Pigments – For Warehouses, Factories, Shopping Malls, Public Areas, Restaurants & Museums

PRODUCT DESCRIPTION

ChemFit HardTop Quartz 1200 is a one part, preblended, colored mineral dry shake hardener comprising cement, specially selected quartz aggregates, admixtures, and pigments. When applied to fresh concrete, it creates a hard, dense, abrasion-resistant, and attractive floor surface, providing a long-lasting, dust-proof flooring system. The quartz aggregate provides a highly durable surface for medium to heavy traffic areas.

PRIMARY APPLICATIONS

ChemFit HardTop Quartz 1200 is recommended for use in conditions such as:

- Warehouses and distribution centers
- Factories and manufacturing plants
- Shopping malls and retail spaces
- Public areas, airports, and train stations
- Restaurants, commercial kitchens, and food processing areas
- Museums, showrooms, and exhibition halls
- Parking garages and car parks
- Workshops, garages, and service bays

KEY FEATURES AND BENEFITS

- **One part, preblended** – Ready to use; consistent quality
- **Hard wearing** – Extremely abrasion and impact resistant
- **Dust proof** – Eliminates dusting of concrete surfaces
- **Colored finish** – Wide range of UV-stable pigments available
- **Monolithic bond** – Forms integral bond with base concrete; no delamination
- **Enhanced durability** – Resists oils, greases, and mild chemicals
- **Low maintenance** – Easy to clean and maintain
- **Slip resistant finish** – Can be finished to achieve required slip resistance
- **Good coverage** – 5 kg/m² achieves 2.5-3 mm thickness

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Free-flowing powder
Color	Natural cement grey; range of colored options available
Basis	Cement, quartz aggregates, admixtures, pigments
Bulk Density	1.5 ± 0.1 kg/L
Aggregate Hardness	7 on Mohs scale (quartz)
Layer Thickness	2.5 – 3.0 mm at 5.0 kg/m ²
Compressive Strength	≥ 70 N/mm ² at 28 days
Abrasion Resistance	~1.70 mm wear loss (ASTM C944)
Application Temperature	+5°C to +35°C
Substrate Temperature	+5°C to +35°C
Relative Humidity	30% – 98%

PACKAGING AND STORAGE

Packaging:

- 25 kg multi-layer paper bags with moisture barrier

Storage:

- Store in original sealed bags in a cool, dry location between +2°C and +35°C
- Protect from moisture, humidity, and direct sunlight
- Stack pallets off the ground on wooden pallets
- Keep bags intact and sealed until ready for use

Shelf life: 12 months from date of manufacture when stored properly

DOSAGE AND COVERAGE RATES

The recommended application rate is **5 kg per square meter**, achieving a layer thickness of approximately **2.5 – 3.0 mm**.

Coverage varies by traffic requirement:

Traffic Level	Application Rate	Layer Thickness
Light traffic (shopping malls, museums)	3 – 5 kg/m ²	1.5 – 2.5 mm
Medium traffic (warehouses, showrooms)	5 – 6 kg/m ²	2.5 – 3.0 mm
Heavy traffic (factories, loading bays)	6 – 7 kg/m ²	3.0 – 3.5 mm

Yield per 25 kg bag:

- At 5 kg/m²: Approximately 5 m² per bag
- At 6 kg/m²: Approximately 4.2 m² per bag

NOTE: Coverage is approximate; varies with concrete bleed water, substrate profile, and application technique. Minimum recommended application rate is 5 kg/m² for adequate performance.

APPLICATION GUIDELINES

Surface Preparation:

- Concrete must be fresh, high quality, with minimum compressive strength 25 N/mm² at 28 days
- Concrete mix must have low water/cement ratio; air-entrained concrete is not suitable
- Slump should be 75 – 110 mm
- Concrete surface must be leveled and free of bleed water before application

Timing of Application:

- Concrete must have stiffened sufficiently – footprint of thumb pressure should be 3-5 mm deep
- Bleed water must have completely evaporated

Application Method:

- **First application:** Sprinkle approximately 3 kg/m² evenly onto concrete surface
- Wait until material darkens from moisture absorption
- Float using wooden trowel or power float; do not over-work
- **Second application:** Sprinkle remaining 2 kg/m² (or total required) evenly
- Wait until moisture is absorbed; float as first application

- **Final finishing:** Use power trowel with blades when floor has stiffened sufficiently

Important Notes:

- Do not add water during finishing – this softens the surface
- For large areas, divide into bays to maintain workable edges
- A minimum total application of 5.5 kg/m² is recommended for high abrasion resistance
- Apply in two layers for best results

Curing:

- Immediately after final finishing, apply curing compound or cover with plastic sheeting
- Light foot traffic: approximately 12 hours after application
- Full service load: 7 days after application
- Maintain curing for minimum 7 days for optimal strength development

HEALTH AND SAFETY

ChemFit HardTop Quartz 1200 is alkaline and may cause severe eye and skin irritation. In fresh, wet state, the product is caustic. If eye contact occurs, rinse immediately with plenty of water for 15-20 minutes and seek medical attention. For skin contact, wash immediately with soap and water; remove contaminated clothing. If swallowed, do not induce vomiting; rinse mouth and drink water, then seek medical attention. Use gloves, safety glasses, and protective clothing during handling. Avoid inhalation of dust – use dust mask if ventilation is poor. Refer to the Safety Data Sheet for detailed information.

CLEANG OF TOOLS

Clean all mixing equipment, trowels, and spillages with water immediately after use. Dried material requires mechanical removal.

APPROVALS AND STANDARDS

ChemFit HardTop Quartz 1200 complies with the following standards:

- **EN 13813** – Screed material and floor coatings (Class CT-C50-F7-AR6)
- **EN 206/1** – Concrete specification (compliant substrate requirements)
- **ASTM C944** – Abrasion resistance testing
- One part, preblended, colored mineral dry shake hardener
- Suitable for warehouses, factories, shopping malls, public areas, restaurants, and museums

LEGAL NOTES

All technical data provided in this Product Data Sheet is based on laboratory testing under controlled conditions. Actual field performance may vary due to differences in substrates, application methods, site conditions, and environmental factors. ChemFit makes no warranty of merchantability or fitness for a particular purpose. Users shall conduct their own trials to validate product suitability for the intended application. ChemFit reserves the right to modify product specifications without prior notice. For the most current documentation, request the latest Product Data Sheet and Safety Data Sheet from ChemFit.

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