

NESCOAT[®] CemQuartz Quartz Aggregate Surface Hardener

DESCRIPTION

NESCOAT[®] CemQuartz is a cement-based surface hardener containing quartz aggregate, special chemical additives, and pigments.

APPLICATION AREAS

- Suitable for both indoor and outdoor surfaces exposed to medium to heavy loads.
- Ideal for industrial facilities, parking lots, and commercial floors subjected to vehicle traffic and heavy loads.
- Applied to fresh concrete to enhance abrasion resistance and prevent surface dusting.

ADVANTAGES

- Provides superior abrasion resistance due to its hard corundum aggregate.
- Creates easy-to-clean, dust-free surfaces.
- Offers an elegant and professional appearance with color options.
- Ready-to-use formula provides a fast and practical solution.
- Reduces maintenance costs with its long-lasting structure.

SURFACE PREPARATION

- The concrete to be treated must be freshly poured.
- The compressive strength of the concrete must be at least 25 N/mm².
- Concrete thickness must be a minimum of 10 cm.
- Concrete should be evenly and smoothly laid.
- The surface should be leveled during placement using screeds or other leveling tools.
- A smooth surface ensures even distribution and proper bonding of the hardener to the concrete.
- The surface must be free of standing water or foreign materials.
- The concrete must reach the proper consistency for application (when a firm thumb press leaves a 5–10 mm deep mark).

MORTAR PREPARATION

The product is ready to use in powder form and requires no preparation.

APPLICATION

- Spread **2/3 of the surface hardener** evenly onto the concrete surface without forming piles. Avoid spreading from distances greater than 2 meters to prevent aggregate separation.
- Allow the material to absorb moisture from the concrete surface. Moistening is indicated by a darker color of the material.
- Integrate the material with the concrete using a low-speed mechanical trowel.
- Spread the remaining **1/3 of the surface hardener** evenly across the surface. Perform troweling again with a low-speed mechanical trowel.
- Once the concrete surface becomes walkable, perform final troweling with a high-speed mechanical trowel until the desired finish is achieved.
- Apply NESCOAT[®] CURE A acrylic curing compound in a single coat using a sprayer or roller on the finished surface. This prevents premature drying, enhances the performance of the surface hardener, and ensures durability.

SERVICE TIME

- Open to foot traffic after **24 hours**.
- Open to vehicle traffic after **7 days**.
- Open to heavy load traffic after **28 days**.
- Service times may decrease in high temperatures and increase in low temperatures.

CONSUMPTION

- 5 kg/m²

The specified consumption amounts may vary depending on the surface and application conditions. A sample application is recommended for accurate consumption measurement.

WARNINGS AND RECOMMENDATIONS

- During application, the ambient and surface temperatures should be between **+5 °C and +35 °C**.
- After application, the surface must be protected from rainfall and other sources of moisture for **24 hours**.
- Do not apply if freezing weather conditions are expected within **3 days** of application.
- Avoid application in windy conditions.

STORAGE AND SHELF LIFE

- Protect the product from moisture, heavy sunlight, and frost.
- Store with a maximum of 2 pallets stacked on top of each other.
- Shelf life is 12 months from the date of manufacture under proper storage conditions.
- Opened packages should be tightly sealed and used within one week.

PACKAGING

25 kg kraft bag (PE reinforced)

SAFETY RULES

- Appropriate protective equipment (clothing, gloves, goggles, mask) should be used during application.
- In case of contact with the skin, the affected area should be washed with plenty of water.
- For more detailed information, please refer to the Material Safety Data Sheet (MSDS).

QUALITY CERTIFICATES

- Complies with the ISO 9001:2015 quality management standard.
- Complies with the TS EN 1504-2 building materials standard.
- CE marked, compliant with EU standards.



TECHNICAL SPECIFICATIONS

Feature	Value
Appearance	Gray, Red, Green Powder
Compressive Strength	≥ 60 N/mm ²
Flexural Strength	≥ 9 N/mm ²
Abrasion Resistance (Taber Method)	< 4 gr
Reaction to Fire	A1

*The values mentioned above are valid for +23°C and 50% relative humidity.

LEGAL DISCLAIMER

The information in this document has been prepared based on NESCAOT's laboratory tests and field experience. NESCAOT is not responsible for any adverse outcomes resulting from the use of the product outside of its intended purpose or failure to comply with the conditions stated above.