

Product Data Sheet

CasTech Dryshake

Nov-2025, Ver. 01.01



Monolithic Surface Hardener for Industrial Concrete Floors

DESCRIPTION

CasTech Dryshake is a high-performance, non-metallic dry shake hardener composed of graded synthetic mineral aggregates, premium Portland cement and advanced plasticizers. Designed for monolithic integration with fresh concrete, it delivers an ultra-dense, abrasion-resistant surface that eliminates delamination and shrinkage cracks. The specialized aggregates ensure long-term durability without polishing under heavy traffic.

TYPICAL USES

- Industrial floors (warehouses, factories, logistics centres)
- High-traffic areas (parking garages, retail spaces)
- Abrasion-resistant surfaces (forklift zones, production plants)
- Uncoated concrete floors requiring superior impact and skid resistance

ADVANTAGES

Key advantages:

- Ready to use – no additional additives required
- Non-metallic aggregate – eliminates corrosion risks
- Exceptional hardness – Mohs scale > 7.0 for extreme wear resistance
- Monolithic bond – seamless integration with base concrete
- Oil and grease resistant – ideal for industrial environments
- Customizable colours – aesthetic and functional options

STANDARDS

CasTech Dryshake complies with ASTM C 688 – S and EN 197-1.

TYPICAL PROPERTIES

Compressive Strength (ASTM C39 / EN 12390-3)	≥ 70 MPa (28 days)
Abrasion Resistance (DIN 52108 / ASTM C944)	300% better than standard 40 MPa concrete
Impact Resistance (BS 8204-1:1987)	3.5× higher than heavy-duty requirements
Hardness, Mohs Scale (ASTM D2240)	> 7.0

BASE CONCRETE REQUIREMENTS

- Thickness: ≥ 80 mm
- Water-cement ratio: < 0.50
- Cement content: ≥ 300 kg/m³
- Slump: ≥ 75 mm
- Air entrainment: < 2%
- Avoid vacuum dewatering or premature drying

APPLICATION

Dosage: medium duty 3 – 5 kg/m²; heavy duty 5 – 7 kg/m².

Timing: apply when the concrete is firm enough to support light foot pressure (5 mm indentation).

Method: first pass – broadcast ⅔ of the material evenly; initial floating – wood float to embed the aggregates; second pass – apply the remaining ⅓ and finish with steel trowelling.

CURING

Apply CasTech Cure WB/RB (or an equivalent membrane with > 75% efficiency per BS 7542). Maintain moisture for ≥ 7 days to ensure optimal strength development.

COMPATIBILITY

CasTech Dryshake is not suitable for areas exposed to acids or aggressive chemicals. Avoid application in extreme weather (high winds, direct sunlight).

PRECAUTIONS

- Avoid moisture contamination – keep bags sealed until use
- Store in dry conditions (< 30°C, RH < 60%) to prevent premature curing
- Do not stack pallets more than 5 layers high to prevent compaction

PACKAGING, STORAGE AND SHELF LIFE

25 kg moisture-resistant bags. Shelf life is 12 months in dry, sealed storage (< 30°C, RH < 60%).

HEALTH AND SAFETY

PPE: Suitable protective goggles, gloves and mask must be worn.

Precautions: In case of contact with eyes, rinse immediately with plenty of water; in case of contact with skin, wash off immediately with soap and water. If swallowed, seek medical attention immediately.

Hazard: Regarded as non-hazardous for transportation.

Disposal: Do not reuse containers. Dispose of as per local rules

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and regulations.

Additional information: Refer to MSDS (available on request).

TECHNICAL SUPPORT

CasTech provides on-site assistance and consulting services on projects when requested. Technical data sheets on other CasTech products and guidance on their use are available on request.

CasTech MIDDLE EAST FZE

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