

TopHARD

FLOOR SURFACE HARDENER
DRY-SHAKE · CEMENT BASED

PRODUCT DESCRIPTION

TopHARD is a ready-mixed dry-shake floor hardener made from Portland cement, selected aggregates of appropriate grading, special polymers and pigments resistant to alkali and to UV radiation. It is broadcast directly onto fresh concrete and power-floated to produce an abrasion-resistant floor of uniform colour.

QUICK SPECIFICATIONS

PACKAGING	25kg/bag
COLOUR	Concrete grey · Green · Custom colour on request
COVERAGE — NORMAL AREAS	3 - 5kg/m² (grey) 5 - 7kg/m² (other colours)
COVERAGE — HEAVY-DUTY AREAS	5 - 11kg/m² (grey) 7 - 13kg/m² (other colours)
COMPRESSIVE STRENGTH	≥ 60.0MPa
FLEXURAL STRENGTH	≥ 10.0MPa
MOHS HARDNESS	≥ 7
WET-OUT TIME BEFORE FLOATING	5 - 10 minutes
MOVEMENT JOINT BAY AREA	Maximum 25m²
SUBSTRATE TEMPERATURE	8 - 35°C
CURING	No curing required
SHELF LIFE	06 months (unopened bag)
STORAGE CONDITIONS	Cool, dry, well-ventilated place



ILLUSTRATIVE IMAGE Broadcasting TopHARD onto fresh concrete before power floating



ILLUSTRATIVE IMAGE Factory floor, burnished and uniform in colour

USES

- Designed for **interior and covered exterior** areas
- **Applications:** Car parks · Warehouses · Ramps · Industrial floors
- **Benefits:** Good abrasion resistance · Uniform colour · Economical · Easy to use

CONCRETE SURFACE PREPARATION

- Level the concrete with **a long aluminium straightedge** after the concrete is placed and before bleed water appears

APPLICATION

- Broadcast TopHARD **by hand** immediately after the bleed water has disappeared from the surface
- The material must be applied **at the full specified rate** to achieve the final properties of the finished surface
- Allow the powder to wet out **5 - 10 minutes** until the powder darkens
- As soon as the mix becomes plastic or approaches initial set, level the surface with **a slow-speed power float** fitted with metal blades at minimum pitch; carry out the final pass some time later at high speed to achieve the required sheen
- Areas difficult to reach by machine may be worked with a steel trowel

MOVEMENT JOINTS

- Movement joints must be carried **right through** from the concrete slab to the floated surface
- Lay out movement joints so that each bay is **no larger than 25m²**
- Joints may be reinforced with **a U-shaped metal bead** to prevent spalling of the joint arrises
- After **28 days** the joint may be sealed with a suitable alkali-resistant joint sealant

TECHNICAL DATA

Property	Standard	Result
Flexural strength	TCVN 3121-11:2022	≥ 10.0MPa
Compressive strength		≥ 60.0MPa
Mohs hardness	–	≥ 7

The above results and recommendations are based on laboratory testing; actual performance may vary depending on the application method and specific site conditions

SAFETY INFORMATION

- **Skin and eyes:** the product contains alkaline Portland cement; contact with perspiration or body fluids may cause skin irritation, mild burns or allergic reaction in sensitive individuals. Both dry and wet cement can cause serious eye injury on direct contact
- **Eye contact:** rinse immediately under gently running clean water for 10 - 15 minutes without rubbing the eye; if pain persists, seek medical attention at the nearest facility
- **Protective equipment:** Gloves · Safety goggles (when mixing) · Fine-dust mask (when mixing) · Protective clothing
- **Working environment:** work in a well-ventilated area, away from confined spaces, children and pets; avoid inhaling cement dust while mixing the dry material
- **Surplus material:** reseal the bag tightly after use to prevent moisture pick-up. Do not dispose of surplus material down drains — it may cause blockages; allow it to harden and dispose of it as construction waste
- Consult the **Safety Data Sheet (SDS)** latest edition on the official BUMATECH website, or contact our technical department

PRECAUTIONS & DISCLAIMER

- Always carry out a trial application on a small area before full-scale work, to assess adhesion, coverage and compatibility with the substrate under actual site conditions
- Do not add cement or sand to TopHARD
- Do not use TopHARD on floor surfaces exposed to chemicals or to materials that react with cement
- Colour variation across the finished surface may occur, caused by the water/cement ratio of the concrete mix, the cement type and the application rate
- Do NOT swallow and avoid inhaling product dust; wear a dust mask wherever product dust is present
- The figures in this document are established by laboratory testing under standard conditions; actual values vary with temperature, humidity, accompanying materials, application method and workmanship. It is the user's responsibility to verify suitability for the intended use
- BUMATECH accepts no liability for loss arising from use outside the intended purpose, application contrary to these instructions, or combination with incompatible materials not confirmed in writing; we reserve the right to update technical information without prior notice. Check the latest TDS edition on our website before each project

BUMATECH CO., LTD

Head Office: 154/1/5 Cong Lo, Tan Son Ward, Ho Chi Minh City
Office: 91 Hoang Bat Dat, Tan Son Ward, Ho Chi Minh City
Factory: 820 Ap Chanh, Duc Lap Commune, Tay Ninh Province

TECHNICAL 0979 793 804
SALES 0914 765 778
bumagreen@bumatech.com.vn
www.bumatech.vn

TopHARD
BROCHURE CONSTRUCTION MORTAR
COMPANY PROFILE BUMATECH

