

BUMA-MOTA®

# TopHard

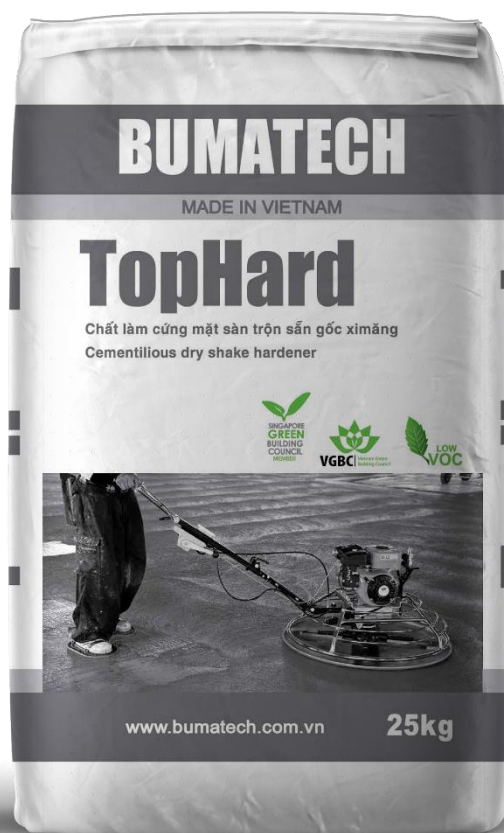
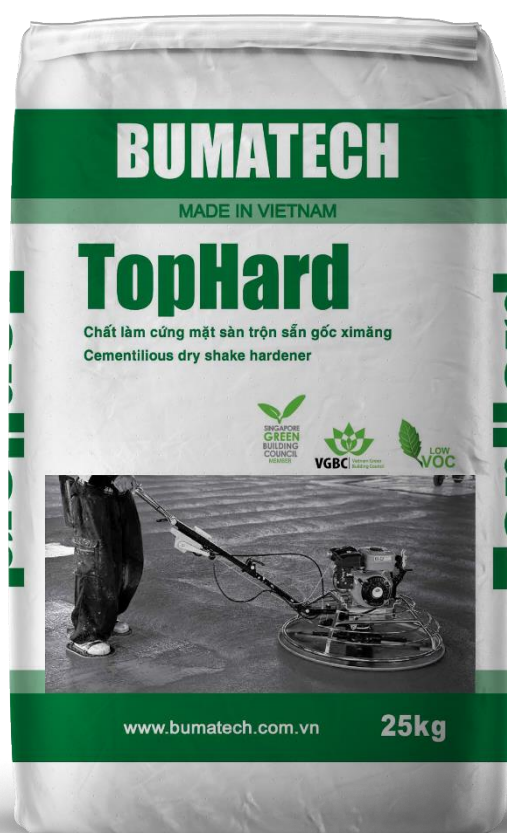
Cementitious dry-shake hardener

**Economical**

**Ease to use**

**Uniform color**

**Abrasion resistant**



**PRODUCT DESCRIPTION**

**TopHard** is a ready-to-use, dry-shake hardener made from Portland cement, well-graded mineral aggregates with best particle size distribution and special polymer as well as alkali and UV resistant color pigments

**USES**

- Designed for interior and exterior application
- Parking garage
- Warehouse
- Ramps
- Industrial floors

**PACKAGING**

25 kg/bag

**COLOUR**

- Concrete grey
- Green, designed colors

**COVERAGE**

- 3-5 kg/m<sup>2</sup>: grey color, normal traffic areas
- 5-11 kg/m<sup>2</sup>: heavy traffic areas, colors

**SHELF LIFE**

Factory sealed containers of this product are guaranteed to be of first quality for three (3) months\* if stored off the ground in a dry area.

\* High humidity will reduce the shelf life of bagged product.

**LIMITATIONS**

- DO NOT add cement or sand to **TopHard**
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water
- DO NOT take internally. Avoid breathing dust. Wear a respirator in dusty areas
- Do not use **TopHard** on floor surfaces exposed to chemicals and other materials, which attack cement.
- Color shade variation of the finished surface can occur due to water cement ratio, type of cements, materials consumptions...

**INSTALLATION****Concrete surface preparation**

- The surface can be pre-levelled with a long aluminum trowel before the appearance of bleed water

**Application**

- **TopHard** is manually broadcasted and must be applied only after bleeding is re-absorbed (disappear)
- It is important that the minimum coverage is maintained for best finished surface.

- Leave the applied dry shake between 5 to 10 mins, to be moistened till its color gets dark
- As soon as the mixture becomes plastic or just as it is about to set, carry out a pre-smoothing operation with the power float machine running at a low speed but fitted with a metal blade's at a minimum inclination. The final smoothing operation (if necessary) is carried out sometime later, but with the power float machine running at a high speed.
- Sections that are difficult reach have to be manually finished with a steel trowel.
- Movement joints in the substrate should be continued up to the surface
- Movement joints must be created to define surface areas not larger than 25m<sup>2</sup>.
- These joints can be strengthened with steel profiles in order to avoid mechanical damage
- After 28 days, fill these joints with appropriate alkali resistant sealant.

**Cleaning**

- Due to high adhesion strength of this product (even on metals), tools should be washed before mixture becomes harden
- Once mixture setting, cleaning can only be carried out by mechanical method

**SAFETY PRECAUTIONS**

- In case of contact with the eyes, rinse with running water (10-15min)
- Wear protective gloves, clothing and eyes and face protection.

**DISCLAIMER**

- Technical details and recommendations contained in this product datasheet correspond to the best of our knowledge and experiences at the time of printing
- These detail offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products for their requests
- Technical details and recommendations can be changed by site condition and workmanship of applicators.
- As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program
- The newest technical data sheet will be supplied upon user request

**TECHNICAL SERVICES/ AVAILABILITY**

Information is available by calling

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**PRODUCT PERFORMANCE PROPERTIES**

Test	Test Method	Result
Flexural Strength	TCVN 3121-11:2003	$\geq 10$ MPa
Compressive Strength		$\geq 60$ MPa
Mohs hardness	-	$\geq 7$

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions

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