

MasterTop® 435

Mineral and Corundum Aggregated Surface Hardener

DESCRIPTION

MasterTop® 435, is a cement based, mineral and corundum aggregated surface hardener designed to be applied as a dry shake over freshly floated surface concrete which will be exposed to heavy duty.

CHARACTERISTICS

- Easily applied on freshly floated surface concrete.
- With its modified polymers, it absorbs the water of the surface concrete on which it has been applied and forms a monolithic structure with bare concrete.
- Do not oxidize.
- Hardener applied surface is more resistant to abrasion than bare concrete.
- Resistant to freeze-thaw cycle.
- Resistant to flaking due to the salt application against freezing.

FIELD OF APPLICATION









MasterTop® 435, is designed to ensure durability in applications where floor is subject to medium and heavy traffic and where a non-dusting surface is required. It will improve and enhance the performance of all concrete floors.

- Used in workshops
- In energy stations
- In garages
- In car parks
- In storage areas
- In loading bays
- In factories
- In shipyards
- In aircraft hangars
- In car wash shops
- In helicopter landing sites,

REMARKS

- During application the ambient and the floor temperature should not be less than +5°C and more than +35°C.
- The surface hardener applications should be carried out by suitably qualified applicators.
- The Surface Hardeners are only aimed to increase the abrasion and impact resistance of a surface; they have no effect on mechanical strengths (flexural, tensile and compression) of the concrete on which they are applied. Therefore, the concrete should be designed in accordance with the mechanical loads that affect the surface thereof.
- The thickness of the screed on which **MasterTop® 435** will be applied should be more than 7 cm, the water/cement ratio should be over 0.45 and the concrete class should be C25 at least.

APPLICATION PROCEDURE

- 
 Placing Concrete
 - 
 Levelling, consolidating and Striking off concrete
 - 
 Apply the first shake of **MasterTop® 435** (manually)
 - 
 Apply the first shake of **MasterTop® 435** by spreader
 - 
 Floating the first shake of **MasterTop® 435**
- Repeat steps 3 up to 4 including (apply the second shake, floating the second shake of MasterTop 435) followed by a first trowelling and a second/final trowelling.*
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 Curing
 - 
 Sawing Joints
 - 
 Application of joint sealant

For detailed information on the application steps, please consult the application manual.

MasterTop® 435

Mineral and Corundum Aggregated Surface Hardener

Technical Data		
Physical Type		Ready to use powder
Color		Cementgrey, further colors see color-chart
Curing		Necessary
Filling joint		Recommended
Compressive strength (28 days)	EN 13982-2	60 N/mm ²
Flexural strengths (28 days)	EN 13982-2	F7 N/mm ²
Fire Resistance		A1 _{fl}
Release of corrosive substances		CT (Çimento Esaslı Şap)
Impact resistance (IR)	EN ISO 6272-1 (EN 1504-2)	Class I

CONSUMPTION

Depends on application fields and traffic loads; 4-8 kg/m².

PACKAGING, STORAGE, SHELF LIFE

MasterTop® 435 is packaged in 25 kg moisture resistant bags. Do not use the product if bag is damaged. Store dry, cool and frost-free.

MasterTop® 435 can be stored for 12 months in the tightly closed original packages.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

CONTACT INFORMATION

Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.

Adres: Barbaros Mah. Begonya Sok.

Nidakule Kuzey Ataşehir, C Kapısı

No:3 E/5, 34746 Ataşehir İstanbul / Türkiye

Tel: 0216 217 88 00

Mail: mbs.tr@mbcc-group.com

Web: www.master-builders-solutions.com/tr-tr

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Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul 20 DOP NO: 04.13813.018 CT-C60-F7	
EN 13813: 2002 MasterTop 435 Çimentolu Şap Malzemeleri (Cemented Screed Materials) Mineral ve Korund Agrega İçerikli Yüzey Sertleştirici (Surface Hardener with Mineral and Corundum Aggregate)	
Yangına Direnç (Reaction to Fire)	A1 _n
Basınç Dayanımı (Compressive Strength)	C60 N/mm ²
Eğilme Dayanımı (Flexural Strength)	F7 N/mm ²