

MasterTile® FLX 426

Cement Based Polymer Modified Flexible, Fast Setting and High Performance Ceramic and Granite Adhesive

DESCRIPTION OF PRODUCT

MasterTile® FLX 426, is a cement based polymer modified, fast setting, highly stable high performance flexible adhesive used in adhesion of ceramics, granites, marbles, natural stones, glass mosaics, and press bricks.

Complies with the EN 12004-C2FS2 Class

C2: Cement based adhesive with improved additional properties

F: Fast Setting

S2: Highly Deformable

FIELDS OF APPLICATION

- In inner and outer areas for horizontal applications.
- In the adhesion of ceramics, granites, cottos, press bricks, porcelains, glass mosaics, marbles, natural and composed stones to all kinds of surfaces (like cement based surfaces, concrete, precast concrete parts, plasters, etc.).
- In the adhesion of ceramics, granites, marbles, natural stones, and glass mosaics on surfaces effected from temperature differences such as; plasterboard, gypsum-plaster, heat insulation sheets, gas concrete, after priming with **MasterTile® P 300 RC**.
- In wet areas like swimming pools, water tanks, bathrooms, etc.

FEATURES AND BENEFITS

- Easy to prepare and apply.
- Resistant to freezing-thawing cycle. Resistant against tensions and vibrations rooting from temperature differences.
- Fast Setting
- Highly flexiable
- Complies with the EN 12004 - C2F S2 Class

APPLICATION PROCEDURE

Preparation of Substrate

Application surface has to be strong, dry, bearing, dustless, clean, and also in balance. Surface must be cleaned off all kinds of oil, grease, rust, and paraffin traces that can weaken adherence and no loose particles must be present. Disordered surface with 5 to 20 mm depth must be repaired with **MasterEmaco® S 488** repair mortars two days before the application. If the application surface is over +25°C, then it must be moisturized.

Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **MasterTile® FLX 426** is slowly added to the water and mixed with a 400-600 RPM

mixer for 3-5 minutes until a homogenous and unlumpy mixture is obtained. After resting it for approximately 3-5 minutes and mixing again for 30 seconds, the material is ready to use.

Mixing Ratio

MasterTile® FLX 426	Amount of Mixture Water	Density of Mixture
For 1 kg Powder	0,25 liet	1.52 g/cm ³
For 20 kg Bag	5,00 liet	

Application

1 mm **MasterTile® FLX 426** is applied on application surface with the flat side of trowel. In an area that can be covered in 10 minutes, period of open waiting, **MasterTile® FLX 426** is applied by serrated side of trowel in single direction in uniform thickness. In the adhesion of ceramics or granites with different thicknesses, to repair the disorder on application surface, it is suggested to apply 1 mm mortar under each ceramic or granite. When applying ceramics or granites to the place of application, ceramics or granites are floated on mortar to enable full contact of adhesion mortar. Suggested joint gap according to applied ceramic or granite dimension is left and the application is finished. To fill the left joint gaps, **Master Builders Solutions** joint grouts must be used. Grouting of joints can be realized after approximately 4 hours.

Applicability Test of Adhesive (Period of Open Waiting)

Fingers are pressed on the adhesive applied surface. If the adhesive smeared on the fingers, application of ceramics or granites is continued. If the fingers are clean, it means the application time of adhesive has passed. In this case, the adhesive is scraped off the surface and new adhesive is applied.

WATCH POINTS

- **MasterTile® FLX 426** If environmental temperature is below +5°C or over +25°C in **MasterTile® FLX 24** application, then suitable temperatures must be waited for. Also **MasterTile® FLX 24** application should not be made in very hot, rainy or windy weathers. **MasterTile® FLX 426**'s spread thickness must not exceed 8 mm (min. 3 mm).
- Ceramics with high water absorption have to be watered well before application. Under no circumstances, water and new material must be added to drying **MasterTile® FLX 426** mixture.
- In exterior surface applications, the applied surface must be protected from excessive sunlight, wind, freezing, and rain for the first 24 hours.

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CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **MasterTile® FLX 426** is hardened, it can only be removed from the surface mechanically.

PACKAGING

20 kg polyethylene reinforced kraft bag

STORAGE

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

HEALTH AND SAFETY PRECAUTIONS

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

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: 03.12004.013	
EN 12004:2007+A1:2012 MASTERTILE FLX 426 Hızlı sertleşen , şekli oldukça fazla bozulabilen, iç ve dış kullanım için uygun, geliştirilmiş çimentolu yapıştırıcı (Improved cementitious adhesive for internal and external use with fast setting , highly deformable) C2FS2	
Yangına Karşı Tepki (Reaction To Fire)	A2
Tehlikeli maddelerin açığa çıkması (Release of dangerous substances)	Bkz. Malzeme Güvenlik Bilgi Formu (see Material Safety Data Sheet)
Erken Çekme Yapışma Kuvveti (Early tensile adhesion strength(after not more than 6 h))	≥ 0,5 N /mm ²
Başlangıç Çekme Yapışma Kuvveti (Initial tensile adhesion strength)	≥ 1,0 N /mm ²
Isı ile yaşlandırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after heat ageing)	≥ 1,0 N /mm ²
Suya daldırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after water immersion)	≥ 1,0 N /mm ²
Donma-çözünme çevriminden sonra çekme yapışma kuvveti (Tensile adhesion strength after freeze-thaw cycles)	≥ 1,0 N /mm ²

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Technical Datas	
Structure of Material	Mineral fillers, Syntetic additives powder polymer and special cement
Color	Grey
Substrate Temperature	+5°C / +25°C
Service Temperature	-40°C / +80°C
Tensile Adhesion Strenght	≥ 0,5 N/mm ²
Early Tensile Adhesion Strenght (3 Hours Later)	≥ 1,0 N\mm ² (EN 1348)
Tensile Adhesion Strenght After Water Immersion	≥ 1,0 N\mm ² (EN 1348)
Tensile Adhesion Strenght After Heat Ageing	≥ 1,0 N\mm ² (EN 1348: 2007)
Tensile Adhesion Strenght After Freeze / Thaw Cycle	≥ 1,0 N\mm ² (EN 1348: 2007)
Flexibility	≥ 0,5 N/mm ²

