

MasterTile® 14

Cement Based Ceramic and Marble Adhesive (Coarse Gradation)

DESCRIPTION OF PRODUCT

MasterTile® 14 is a cement based highly stable adhesive used in adhesion of ceramics and marbles.

Complies with the EN 12004-C1T class.

C1= Normally hardening cement based adhesive

T= With reduced sliding

FIELDS OF APPLICATION

- In inner and outer areas for vertical and horizontal applications.
- In the adhesion of tiles, ceramics, marbles, decorative tiles or press bricks, and cottos to cement based surfaces.

FEATURES AND BENEFITS


- Easy to prepare and apply
- Long process time
- No sliding in vertical applications
- No slump
- High adhesion property

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®** repair mortars two days before the application. If the application surface is over +25°C, then it must be moisturized.

TECHNICAL DATA

Structure of the Material	Granulometric mineral sealants, synthetic additives, and special cement.	
Color	Grey-White	
Tensile Adhesion Strength	≥0,50 N/mm ² (28 days)	
Application Thickness	Min. 4 mm Max. 15 mm	
Joint Sealant Period	24 hours	
Application Ground Temperature	+5°C +25°C	
Service Temperature	-20°C +80°C	
Maturity Period	3-5 minutes	
Usage Period	2 hours	
Period of Open Waiting	20 minutes	
Slide (mm)	None	
Wetting Ability	Min. %90	
Time to Wait Before Walking on It	24 hours	

Obtained in +23°C, 50% relative humidity conditions. Higher temperatures decrease the time, lower temperatures increase the time.

Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **MasterTile® 14** is slowly added to the water and mixed with a 400-600 RPM mixer for 3-5 minutes until a homogenous and unumpy 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® 14	For 1 kg of Powder	For 25 kg Bag
Mixture Water	~0,22 liter	~5,50 liter
Density of Mixture	~1,62 kg/liter	

APPLICATION METHOD

1 mm **MasterTile® 14** is applied on application surface with the flat side of trowel. In an area that can be covered in 20 minutes, period of open waiting, **MasterTile® 14** is applied by serrated side of trowel in single direction in uniform thickness. In the adhesion of ceramics or tiles with different thicknesses, to repair the disorder on application surface, it is suggested to apply 1 mm mortar under each ceramic or tile. When applying ceramics or tiles to the place of application, pavements are floated on mortar to enable full contact of adhesion mortar. Suggested joint gap according to applied ceramic or tile 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 24 hours.

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Suggested Joint Width

Up to 5 x 5 cm	3 mm
Up to 15 x 15 cm	4 mm
Over 15 x 15 cm	6-8 mm

Suggested Reed Dent Dimensions

Ceramic Dimensions	Ceramic Notched Trowel Dimensions	Mortar Bedding Thickness
Up to 30 cm x 30 cm	8 mm	~ 3 mm
Over 30 cm x 30 cm	10 mm	~ 4 mm

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 tiles 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

- If environmental temperature is below +5°C or over +25°C in **MasterTile® 14** application, then suitable temperatures must be waited for. Also **MasterTile® 14** application should not be made in very hot, rainy or windy weathers.
- **MasterTile® 14**'s spread thickness must not exceed 15 mm (min. 4mm). 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® 14** mixture.

COVERAGE

1.33 kg/m² for a thickness of 1 mm adhesive

MasterTile® 14	Ceramic Notched Trowel Dimensions and Coverage (kg/m ²)	
	8 mm	10 mm
25 kg	5,31	6,64

CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **MasterTile® 14** is hardened, it can only be removed from the surface mechanically.

PACKAGING

25 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.

SHELF LIFE

12 months after the production date under appropriate storing conditions. Opened packages have to be stored by tightly sealing the bag, and must be used in one week.

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.

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CONTACT INFORMATION

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DOP NO: 03.12004.002.1	
TS EN 12004-1	
MASTERTILE 14	
Kayma Özelliği Azaltılmış Normal Sertleşen Çimentolu Yapıştırıcı (Normal hardening cement adhesive with reduced slip feature)	
C1T	
Yangına Karşı Tepki (Reaction To Fire)	A1
Başlangıç Çekme Yapışma Kuvveti (Initial tensile adhesion strength)	≥ 0,5 N /mm ²
Isı ile yaşlandırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after heat ageing)	≥ 0,5 N /mm ²
Suya daldırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after water immersion)	≥ 0,5 N /mm ²
Donma-çözünme çevriminden sonra çekme yapışma kuvveti (Tensile adhesion strength after freeze-thaw cycles)	≥ 0,5 N /mm ²
Kayma (Slip)	≤0,5 mm
Açıkta durma zamanı: Yapışma mukavemeti (20 dakika sonra) (Open Time: Tensile adhesion strength (after not less than 20 minutes)	≥ 0,5 N /mm ²