



The Chemical Company

# MasterTile® 15 (Formerly known as USTA 140)

## Cement Based Ceramic and Marble Adhesive

### Description of Product

MasterTile® 15 is a cement based highly stable adhesive used in adhesion of ceramics and marbles.

applications.

### 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

### 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.
- It is suggested to be used by mixing with
- **MasterTile® WP 666 PBT** in open area

### Technical Data

Structure of the Material	Granulometric mineral sealants, synthetic additives, and special cement.	
Color	Gray - White	WK
Tensile Adhesion Strength	≥ 0.50 N/mm <sup>2</sup> (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.





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must be moisturized.

## Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **MasterTile® 15** 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 Ratios

MasterTile® 15	For 1 kg of Powder	For 25 kg Bag
Mixture Water Amount	~0,22 litres	~5,50 litres
Mixture Density	~1,62 kg/litres	

## Application Method

1 mm **MasterTile® 15** 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® 15** 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.

## 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.

## Suggested Joint Width

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

## Suggested Reed Dent Dimensions

Ceramic Dimensions	Ceramic Reed Dent 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

## Coverage

MasterTile® 14	Density of Mixture (kg/liter)	1 mm/m <sup>2</sup> Powder Coverage (kg)	Mixture Water Amount (liter)	Ceramic Reed Dent Dimensions and Coverage (kg/m <sup>2</sup> )	
				8 mm	10 mm
25 kg	1,62	1,33	~5,50	5,31	6,64



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## Watch Points

- If environmental temperature is below +5°C or over +25°C in **MasterTile® 15** application, then suitable temperatures must be waited for. Also **MasterTile® 15** application should not be made in very hot, rainy or windy weathers.
- **MasterTile® 15** 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® 15** mixture.

## Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After **MasterTile® 15** 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

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

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For more information:  
[www.master-builders-solutions.basf.kz](http://www.master-builders-solutions.basf.kz)