

MasterTile® WP 665

Cement Based Polymer Reinforced Single Part Waterproofing Material

DESCRIPTION OF PRODUCT

MasterTile® WP 665 is a cement based polymer reinforced single part rigid insulation material used on concrete curtains and cement based plasters, and applied from the inside or outside against leaking and normal pressure surface waters.

Complies with **EN 1504-2**

FIELDS OF APPLICATION


- In inner and outer areas for vertical and horizontal applications,
- In insulation of foundations,
- In supporting walls,
- In water tanks,
- In wet volumes like WC, bathroom, kitchen, and balcony,
- In small terraces,
- As waterproofing insulation material in small swimming pools and decorative pools.

FEATURES AND BENEFITS

- Easy to prepare and apply.
- Applied by brush, trowel or spraying machine.
- Long working time.
- Water vapor permeable.
- Non-shrinking and non-cracking.
- Resistant to freezing-thawing cycle. Can be safely used in drinking water tanks (has a test report).

Chemical Analysis Laboratory and consistent with BS 6920 Standard Analysis Report.

TECHNICAL DATA

Structure of the Material	Mineral sealant, polymer modified admixtures and special cement		
Color	Gray		
Rupture Strength	>1,00 N/mm ²		
Resistance to Pressurized Water	>0,50 bar positive		
Application Ground Temperature	+5°C +25°C		
Service Temperature	-20°C +80°C	KR 	
Maturity Period	3-5 minutes		
Usage Period	2 hours (in +20°C)		
Period to Wait Before Openin to Service Mechanic Strength Water Impermeability	2 days 7 days		
Period to Wait Before Coating Its Top By Plaster By Ceramic	3 days 3 days		

Obtained in +23°C, 50% relative humidity conditions. Higher temperatures reduce, lower temperatures increase the times Given.

APPLICATION PROCEDURE

Preparation of Substrate

Cement based surfaces that contact with water have 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. Iron and wooden wedges on the surface have to be removed, and active water leakages and spaces must be filled by **MasterSeal 591®** or **MasterEmaco® S 488** if present. Corners and sides must be beveled with minimum 4 cm radius bevels. Application surface has to be wetted well and then waited until it becomes wet/dry. If the coating material losses its water rapidly and turns dull, this means the surface is not wetted well or dried rapidly. In these instances where the weather is hot or materials are exposed to wind, mixture water can be increased for 10% just for the first layer.

Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **MasterTile® WP 665** is slowly added to the container and mixed with a 400 - 600 RPM mixer at least for 3-5 minutes until a homogenous and uniform mixture is obtained. After waiting for 3-5 minutes, the mixture is mixed again for approximately 30 seconds, and becomes ready to use.

Mixing Ratio

Obtaining Rigid Coating By Mixing With Water

MasterTile® WP 665	For 1 kg powder	For 20 kg bag
Mixture Water	~0,23 liter	~4,60 liter
Density of Mixture	~2,03 kg/liter	

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APPLICATION METHOD

Prepared **MasterTile® WP 665** mixture is applied by Thoro brush or trowel as two or three layers. Brush application direction in each layer must be perpendicular to each other. Waiting period between each layer changes depending on environmental conditions.

COVERAGE

Coverage of First Layer: 1.50 kg/m² powder product
Second Layer: 1.30 kg/m² powder product
Third Layer: 1.20 kg/m² powder product

WATCH POINTS

- If surface temperature is below +5°C or over +25°C in **MasterTile® WP 665** application, then suitable temperatures must be waited for. Also application should not be made in very hot, rainy or windy weathers.
- In outer surface applications, the surface has to be protected from sun, wind, frost or rain during the first 24 hours.
- **MasterTile® WP 665** applied in +23°C gains mechanic strength after 2 days, becomes impermeable to water after 7 days, and gains final strength after 14 days. Higher temperatures decrease the time, lower temperatures increase the time.
- Wet film thickness must not pass 2 mm in single layer. The application has to be at least two layers.
- The surfaces that will be walked on have to be coated by **MasterCast® 125** grout or ceramic. **MasterTile® WP 666** must be used for pools, vibrating grounds and surfaces expected to be deflected.

CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **MasterTile® WP 665** 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.

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.

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	
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DOP NO : 02.1504.2.015.1 1020 – CPR – 040 065838	
EN 1504-2 :2004 MASTERTILE WP 665 Beton Yapıların Korunması ve Tamiri İçin Mamuller ve Sistemler. Bölüm:2 Beton için Yüzey Koruma Sistemleri (Products and systems for the protection and repair of concrete structures Part 2: Surface protection systems for concrete) 2.2 Nem Kontrolü ;8.2 Nem içeriğini sıfırlayarak direnci artırma amaçlı kaplama malzemesi (Principles: 2.2 Moisture control, 8.2 Increasing resistivity)	
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı (Adhesion strength by pull-off test)	Rijit sistemler Trafik yükü olmadan≥ 1,0 N /mm ² (0,7 min) (Rigid systems Without trafficking:>1,0 N/mm ² (0,7 min)
Su Buharı Geçirgenliği (Permeability to water vapour)	Sınıf 1: SD<5 m (Class 1: SD<5 m)
Kapiler Su Emme ve Su Geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg /m ² . \h
Yangına Tepki (Reaction to fire)	A1
Tehlikeli Maddeler (Dangerous substances)	Madde 5.4 'e uygun (Comply with clause 5.4)