

MasterTile® WP 666

Cement and Acrylic Based Dual Part Fully-Flexible Waterproofing Material

DESCRIPTION OF PRODUCT

MasterTile® WP 666 is a cement and acrylic based dual part waterproofing material used on concrete, curtain, and cement based plasters, and applied from the inside or outside against leaking and surface waters.

Complies with the EN 1504-2
Complies with the EN 14891

Type:CM= Cementitious liquid-applied water impermeable products;
 Class: O2P= Resistant to contact with chlorinated water, with crack bridging ability at low temperature.

FIELDS OF APPLICATION

- In inner and outer areas for vertical and horizontal applications from the direction of coming water.
- In insulation of foundations. In supporting walls.
- Grounds that are expected to be deflected. In terraces (on condition of protecting the top).
- In wet volumes like WC, bathroom, kitchen, and balcony.
- In olympic swimming pools.
- In water tanks (on condition of protecting the top).
- In facilities like spa and hamams. In insulation of flower gardens.

FEATURES AND BENEFITS


- Easy to prepare and apply
- Applied by brush or spraying machine. Long working time
- Ability to bridge shrinkage cracks with its highly flexible structure
- Forms a jointless, spliceless, permanent, moisture and waterproofing coating
- Resistant to chemicals and salt solutions in soil. Water vapor permeable
- High durability
- Resistant to freezing-thawing cycle
- Can be used in areas affected by movement and vibration
- Forms a perfect water impermeable, nondeformable layer under grouts and ceramics with high adhesion performance and flexible structure

APPLICATION PROCEDURE

Preparation of Substrate

Cement based surfaces of the structures contacting 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

TECHNICAL DATA

Structure of the Material MasterTile® WP 666 Part A MasterTile® WP 666 Part B	Mineral sealant, polmer modified admixtures and special cement Copolymer acrylic dispersion	
Color	Greenish Gray	
Adhesion Strength	>1,00 N/mm ²	
Resistance to Pressurized Water	7 bars (positive)	
Capillary Water Absorption	≤0,10 g (after 4 hours)	
Application Ground Temperature	+5°C +25°C	
Service Temperature	-20°C +80°C	KR 
Maturity Period	3-5 minutes	
Usage Period	2 hours	
Period to Wait Before Opening to Service Mechanic Strength	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.

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instances where the weather is hot or materials are exposed to wind, mixture water can be increased for 10% of the part B just for the first layer.

Mixing

Liquid part B (**MasterTile® WP 666**) is poured into a clean mixing container and powder part A (**MasterTile® WP 666**) 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 666	Part A	Part B
Mixture Water	20 kg	10 kg
Density of Mixture	1,55 kg/liter	

APPLICATION METHOD

Prepared **MasterTile® WP 666** 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. Reinforcement of **MasterTile® WP 666** with waterproofing net: First layer is applied by Thoro brush. After it dries, net is laid down, and second and third layers are applied on it.

COVERAGE

Coverage of First Layer: 1.20 kg/m² mixture

Coverage of Second Layer: 1.00 kg/m² mixture

Coverage of Third Layer: 1.00 kg/m² mixture

WATCH POINTS

- If surface temperature is below +5°C or over
- +25°C in **MasterTile® WP 666** 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 666** 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.
- Working and reaction time of cement and acrylic based systems are affected by environment and ground temperature, and relative humidity in the air. Low temperatures slow down the chemical reaction, and increase working period, coating time, and work time. Also coverage decreases because viscosity increases. High temperatures accelerate the chemical

reaction and times stated above are reduced depending on this. For the material to complete its curing, environment and ground temperatures must not fall down below the minimum allowed value. 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. **Master Builders Solutions** adhesives are recommended for pavement.

CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **MasterTile® WP 666** is hardened, it can only be removed from the surface mechanically.

PACKAGING

30 kg set

Part A: 20 kg polyethylene reinforced kraft bag

Part B: 10 kg tin

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. Part B of **MasterTile® WP 666** freezes below 0°C. Opened packages have to be stored by tightly sealing the bag/cover 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.

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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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20 DOP NO: 02.1504.2.017.1 1020 – CPR – 040 065838 EN 1504-2 : 2004 MASTERTILE WP 666 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) 1.3 Yabancı madde girişine karşı koruma, 2.2 Nem Kontrolü, 8.2 Nem içeriğini sınırlayarak direnci artırma amaçlı kaplama malzemesi (Principles: 1.3 Protection against ingress, 2.2 Moisture control, 8.2 Increasing resistivity)	
CO2 Geçirgenliği (Permeability to CO2)	CO2 SD Geçirgenliği > 50m (CO2 SD permeability > 50m)
Su Buharı Geçirgenliği (Permeability to water vapour)	Sınıf 1 Class 1
Kapiler Su Emme ve Su Geçirgenliği (Capillary absorption and permeability to water)	w<0,1 kg /m².√h
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı (Adhesion strength by pull-off test)	Çatlak köprüleme veya / esneyebilen sistemlerde Normal şartlar altında : ≥ 0,8 N/mm² (0,5 min) (Crack-bridging or/flexible systems Without trafficking:>0,8 N/mm²(0,5 min)
Yangına karşı tepki (Reaction to fire)	A1
Tehlikeli maddeler (Dangerous substances)	Madde 5.4 ' e uygun (Comply with clause 5.4)