

MasterTile® WP 667

Cement and Acrylic Based Two Part Waterproofing Material

DESCRIPTION OF PRODUCT

MasterTile® WP 667 is a cement and acrylic based dual part waterproofing material used on concrete and cement based plasters, and applied from the inside or outside against leaking and surface waters.

Complies with the EN 1504-2


FIELDS OF APPLICATION

- In inner and outer areas for vertical and horizontal applications
- In insulation of foundations. In supporting walls
- In terraces (on condition of protecting the top)
- In wet volumes like WC, bathroom, kitchen, and balcony
- In semi-olympic swimming pools
- In water tanks
- In facilities like spa and hamams. In insulation of flower gardens

FEATURES AND BENEFITS

- Half-flexible and water impermeable. Easy to prepare and apply.
- Applied by brush or spraying machine. Long working time.
- Forms a water impermeable layer under grouts and ceramics with high adhesion performance and half-flexible structure.
- Forms a jointless, seamless, permanent, water impermeable coating.

TECHNICAL DATA

Structure of the Material MasterTile® WP 667 Part A MasterTile® WP 667 Part B	Mineral sealant, polymer modified admixtures and special cement Copolymer acrylic dispersion		
Color	Gray		
Adhesion Strength	>1,50 N/mm ² (28 days)		
Resistance to Pressurized Water	2 bars positive		
Capillary Water Absorption (TS EN 12808-5)	≤0,10 g (after 4 hours)		
Application Ground Temperature	+5°C +25°C		
Service Temperature	-20°C +80°C		
Maturity Period	3-5 minutes		
Usage Period	2 hours		
Period to Wait Before Opening 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		

- Resistant to chemicals and salt solutions in soil. Water vapor permeable.
- 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.

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 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 667**) is poured into a clean mixing container and powder part A (**MasterTile® WP 667**) is slowly added to the container and mixed with a 400-600 RPM mixer at least for 3-5 minutes until a

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

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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 667	Part A	Part B
Mixture Water	20 kg	5 kg
Density of Mixture	1,90 kg/liter	

APPLICATION METHOD

Prepared **MasterTile® WP 667** 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: 1.40 kg/m² mixture
Coverage of Second Layer: 1.20 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 667** 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 667** 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 or ceramic.
- BASF adhesives are recommended for pavements.

CLEANING OF TOOLS

All the tools and equipments must be cleaned by water after the application. After **MasterTile® WP 667** is hardened, it can only be removed from the surface mechanically.

PACKAGING

25 kg set
Part A: 20 kg polyethylene reinforced kraft bag
Part B: 5 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 667** 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.

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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MasterTile® WP 667 Technical Data Sheet -Revision
Date: 12/2020

	
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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 : 02.1504.2.016 1020-CPR-040 065838	
EN 1504-2 :2004	
MASTERTILE WP 667	
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)	
Prensipler : 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)	Çatlak kapatmada veya esnek sistemler Trafik yükü olmadan $\geq 0,8 \text{ N/mm}^2$ (Crack-bridging or/flexible systems Without trafficking: $>0,8 \text{ N/mm}^2(0,5 \text{ min})$
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)	$w<0,1 \text{ kg/m}^2 \cdot \sqrt{h}$
Yangına tepki (Reaction to fire)	A1
Tehlikeli Maddeler (Dangerous substances)	Madde 5.4 'e uygun (Comply with clause 5.4)

	
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