

## MASTERTILE WP 667 PT (MASTERSEAL 567)

Cement and acrylic based dual component half-flexible water insulation material.



### Description of the Product:

**MASTERTILE WP 667 PT** is a cement and acrylic based dual component water insulation material used on concrete and cement based plasters, and applied from the inside or outside against leaking and surface waters.

### 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.
- 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).

### Structure of the material:

**MASTERTILE WP 667 PT** is mineral sealant, polymer modified admixtures and special cement Copolymer acrylic dispersion.

### 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**, **EMACO R 356** 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 component B just for the first layer.

#### Mixing:

Liquid component B (**MASTERTILE WP 667**) is poured into a clean mixing container and powder component 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 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:**

<b>MASTERTILE WP 667 PT</b>	<b>Comp. A</b>	<b>Comp. B</b>
Amount of mixture:	20 kg	5 kg
Density of mixture:	1.9 kg/liters	

**Application Method:**

Prepared **MASTERTILE WP 667 PT** 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/m<sup>2</sup> mixture

Coverage of Second Layer: 1.20 kg/m<sup>2</sup> mixture

Coverage of Third Layer: 1.00 kg/m<sup>2</sup> mixture

**Watch Points:**

- If surface temperature is below +5°C or over +25°C in **MASTERTILE WP 667 PT** 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 PT** 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.

**Packaging:**

Component A: 20 kg polyethylene reinforced kraft bag.

Component 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.

**Technical Data:**

Colour	Grey
Density	1.9 kg/l
Water penetration (DIN 1048)	2 bar – 20 m water column
Adhesion strength	1.5 N/mm <sup>2</sup> (after 28 days)
Capillary water absorption (EN 12808-5)	≤ 0.10 gr. (after 4 hours)
Application ground temperature	from +5°C to +25°C
Service temperature	from -20°C to +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	after 3 days after 3 days