

## MettSeal 100

### CEMENTITIOUS FLEXIBLE WATERPROOFING SLURRY AND PROTECTIVE COATING

**MettSeal 100** is two parts and polymer modified cementitious waterproofing slurry to waterproof concrete and masonry. It comprises of a liquid polymer and a cement base mix incorporating with special additives.

#### PRIMARY APPLICATIONS

- Sealing internal basement wall against dampness
- Rigid waterproofing of water tank, swimming pools, etc
- Pore / blowhole filling
- Interior or exterior waterproofing coating for concrete

#### FEATURES / BENEFITS

- Easy to mix and apply / slurry and trowellable consistency
- Protects against concrete carbonation and water penetration
- Good adhesion to sound substrates
- Increased salt and frost resistance
- Non – toxic, suitable for contact with drinking water.
- Non – corrosive to steel and iron

#### TECHNICAL INFORMATION

##### Appearance:

Part A	:	White Liquid
Part B	:	Grey Powder
Part A + B(mixed):		Grey Slurry

**Density** : 1.9 – 2.0kg/liter  
(freshly mixed mortar)

##### Compressive Strength (MPa) – ASTM C 109

7 Days	:	25
28 Days	:	35

#### AREA OF APPLICATION

- Swimming Pools And Fountains
- Basements
- Retaining Walls
- Bathroom Floors

#### PACKAGING

**MettSeal 100** is packed in 25kg sets

- Part A : 5kg
- Part B : 20kg

#### SHELF LIFE

6 months from date of production if stored properly in undamaged, unopened, original sealed packaging in dry conditions at temperature between +5°C and +40°C. Protect from direct sunlight

#### COVERAGE

- Waterproofing bathroom, balconies and terraces is 1.0kg/m<sup>2</sup> per coat
- Waterproofing coating up to 1m water head is 1.5kg/m<sup>2</sup> per coat.
- Waterproofing coating more than 1m water head is 2.0kg/m<sup>2</sup> per coat
- As protective coating is 2.0kg/m<sup>2</sup> per coat

##### Flexural Strength (MPa) ASTM C 348

7 Days	:	2.0
28 Days	:	4.0

**Absorption** : <3%

**Adhesive Strength:** 0.7N/mm

#### NOTES

**MettSeal 100** must be applied in minimum of 2 coats, 3 coats maybe required in areas of extremely high infiltration.

#### PRECAUTIONS / LIMITATIONS

- Do not use in moderate to heavy traffic bearing surfaces.
- When using **MettSeal 100** in enclosed tanks or reservoirs, make sure adequate ventilation is available during the application and the total curing period.
- Not recommended for negative side waterproofing where hydrostatic pressure exceed 2.4m water head.
- **MettSeal 100** should not be applied to actively leaking surfaces.

### METTEC SYSTEME SDN BHD

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## DIRECTION FOR USE

### Substrate Quality

Surface must be structurally sound and free of all traces of contaminants, loose or friable particles, cement laitance, sharp edges, oil and grease etc

### Substrate Preparation

General – the substrate must be prepared by suitable mechanical preparation techniques such as high-pressure water jetting, needle gun, blast cleaning, scabblers, etc and properly pre – wetted to a saturated surface dry condition. For pore/blow holes filling, blast clean to remove all contaminants including from the pore / blow holes. As for levelling mortar, prepare and clean all surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blow hole sand honeycomb areas exposed. The resultant surface must be profiled to achieve maximum bond strength. Absorbent surfaces have to be thoroughly saturated with water prior to application of first coat of **MettSeal 100**. However, no standing water should be on the surface before application. All intersection of horizontal and vertical surfaces should be profiles with a mortar fillet of 25mm x 25mm

**Note : MettSeal 100 will not bond to surfaces that have been treated previously with a water repellent.**

### Mixing

Under normal circumstance, when the full quantities of both components are mixed together, a slurry consistency will be achieved. The consistency of the mix can be altered by reducing the amount of Part A (liquid) to be used. For trowel application, use only 90% of Part A (approximately 4.5kg). Mix in a clean container by slowly adding Part B (powder) to Part A (liquid) and stirring with a low-speed mixer. Use within 30 minutes.

Mixing Time : 3 minutes

### Application

Whilst the substrate is still damp from saturation, apply the first coat. Leave to harden approximately 4 – 8 hours at temperature above 20°C before applying the second coat.

As A Slurry: apply the mixed **MettSeal 100** by hand using a hard plastic bristled brush or broom. Apply in the same direction. Apply the second coat of

**MettSeal 100** in crossing direction to the first application as soon as first coat has dried.

As A Mortar: When **MettSeal 100** is applied by trowel (e.g. for a smooth surface finish), product must be mixed with a 10% reduction of Part A. apply the second coat of **MettSeal 100** as soon as the first coat has hardened. For bore / blowhole filling, tightly trowel into the pores / blowholes of the surface. For floor application, to avoid risk of damage to the first coat, it is recommended that the second coat be applied before 24 hours. If the second coat is applied 12 hours or later, the first coat shall be slightly pre – wetted, preferably by using a fine spray. After the second coat has been applied, a better finish can be achieved by rubbing down with a soft dry sponge.

For more details, please contact our Technical Department

### Pot Life

30 minutes (30°C). Pot life will be shortened at high temperatures.

### Cleaning Tools

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.

### Curing

Generally, not required but precaution should be taken for applications done directly under sunlight and windy condition.

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