

AB TOP COAT 117



CEMENTITIOUS WATERPROOFING COATING

PRODUCT DESCRIPTION

Obaproof AB Top Coat 117 is cement based waterproofing coating incorporates 2 polymer components. Obaproof AB Top Coat 117 is an environmentally friendly and low VOC material. It uses to apply directly to concrete and mortar to prevent water infiltration.

USES

Obaproof AB Top Coat 117 can be used for positive and negative side waterproofing, sealing of hair line cracks and as a protective coating against aggressive chemicals such as carbon dioxide (e.g. in concrete repair work), frost and de-icing agents. The areas of application are including:

- Potable water tanks
- Terraces and balconies
- RC gutters
- Bathroom floors and walls - Basements
- Retaining walls
- Seawalls

ADVANTAGES

- Low VOC
- Environmentally Friendly
- Pre-batched and ready for used
- Mixes and applies easily
- Highly workability
- Good adhesion to sound substrates
- Impermeable
- Increased frost and salt resistance
- Resist carbon dioxide penetration
- Non-toxic
- Slightly flexible

Tensile Strength (kgf/cm ²) (ASTM D412 (Die C))	8.3
Elongation (%) (ASTM D412 (Die C))	24.30
Tear Strength (kgf/cm) (ASTM D624)	7.20
Hardness (Shore A) (ASTM D2240)	54
100% Modulus of Elasticity (kgf/cm ²) (ASTM D412 (Die C))	5.80
Shear Strength (kgf/cm ²) (ASTM D1002)	4.70
Water Vapor Transmission of Material) i. WVT (g/hxm ²)(23°C, 50%) - ASTM E96	37
ii. Permearce (g/sxm ² xPa) - Method B	1.98 x 10 ⁻⁵
Abrasive Test (g) - Taber CS-17, 1000g, 1000 Cycles (ASTM C501)	0.043
Puncture (kgf)	9
Compressive strength @ 28 days (n/mm ²) (ASTM E154)	>40
Pot life	30min at 30°C and will be shortened at higher temperatures
Shelf life	6 months when unopened
Storage condition	Store in a dry cool place
Packaging	Part A: 5kg / Part B: 20kg

IMPORTANT NOTES:

- Minimum ambient and substrate temperature is 5°C.
- Never apply more than 5 kg/m² of Obaproof AB Top Coat 117 in one single layer.
- Apply only to clean, sound substrates - surfaces should be well dampened but free of surface water and leaks.

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Green Label Test Data

Heavy Metals :

(EPA 3025 / EPA 6010B : ICP)

a. Cadmium (Cd)	Not Detected
b. Lead (Pb)	Not Detected
c. Total Chromium (Cr)	Not Detected
d. Mercury (Hg)	Not Detected

Volatile Organic Compounds (ISO 11890-2) (g/L)	0.63
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Total Halogenated Organic Solvent (ISO 11890-2) (%)	Not Detected
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Total Aromatic Organic Solvent (ISO 11890-2) (%)	Not Detected
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Epichlorohydrin (ISO 11890-2) (%)	Not Detected
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N-Methyl Pyrrolidinone (ISO 11890-2) (%)	Not Detected
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Formaldehyde (High Performance Liquid Chromatography) (%)	Not Detected
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Alkyl Phenol Ethoxylate (LCMS-MS) (%)	Not Detected
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Flash Point o (ASTM D3828-07a) (C)	> 61
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INSTRUCTION FOR USE

SURFACE PREPARATION

Surfaces must be clean, free from grease, oil and loosely adhering particles. All surfaces must be as flat and level as possible.

Absorbent surfaces have to be thoroughly saturated with water prior to application of first coat of Obaproof AB Top Coat 117. However, no loose standing water should be on the surface before application.

MIXING

Under normal circumstances, when the full quantities of both components are mixed together, a consistent mortar will result. Mixing shall be carried out in a clean container by gradually adding the powder component to the liquid component and stirring with slow speed mixer. Use mixture within 30 minutes. 1 set of Obaproof AB Top Coat 117 can be added <1kg of water for smooth application.

COVERAGE

- Bathrooms, terraces and balconies: 1.0kg/m² per coat.
- For waterproofing coating up to 1m water head: 1.5kg/m² per coat.
- For waterproofing coating more than 1m water head: 2.0kg/m²

Notes:

- Obaproof AB Top Coat 117 must be applied in minimum 2 coats.
- More coats may be required in areas of extremely high infiltration.



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APPLICATION

Dilute 1 portion of Obaproof CM-700wp permeable primer or 1 portion of Obaproof AB Top Coat 117 with 3 portions of clean water and then plaster directly to the surface to be waterproofed, in order to improved the bonding.

Apply or plaster first and finish coat of Obaproof AB Top Coat 117to construction surface by using brush, roller of spray method. The time interval between coat shall be 4 – 8 hours, and make sure that the first layer of plastering has been dried and formed as membrane.

OVER COATING

After the primer, Obaproof AB Top Coat 117 can be applying directly provided with areas exposed hot drying winds. For indoor areas, it is recommended that allow approximately 30 minutes after the primer.

For over coating with cementitious materials, allow the second coat to harden for at least 2 days prior to over coating. (For more details, please refer to Technical Department.)

CURING

For optimum performance, Obaproof AB Top Coat 117 should be allowed to cure for 24 hours before the finishing concrete, tiles etc and during this time precautions must be taken in order to prevent damaging to the coating.

CLEANING

Tools and equipment just can be clean with clean water immediately, after use. Hardener material can only be mechanically removed.

SAFETY

As cement is alkaline and may cause irritation, applicators are recommended to wear gloves and goggles when using Obaproof AB Top Coat 117. In case contact with eyes, flush immediately with clean water and seek medical assistance if symptoms persist.

