

Damp Master 2K

Cementitious Waterproofing Coating

Product Data Sheet

Description

Damp Master 2K is cement based waterproofing coating incorporates 2 polymer components. Apply directly to concrete and mortar to prevent water infiltration.

Uses

Damp Master 2K 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 included:

- 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

Technical Data

Tensile Strength (kgf/cm ²) (ASTM D412 -98a)	22.9
Elongation (%) (ASTM D412 (Die C))	24.30
Tear Strength (kgf/cm) (ASTM D624)	7.20
Hardness (Shore A) (ASTM D2240)	54
Pull-off Strength (psi) (ASTM D4541)	306
Water Absorption (%) (BS 1881-122:1983)	0.42
Water Vapor Transmission of Material (ASTM E96)	1.9 g/h.m ²
Abrasive Test (g) – Taber CS-17, 500g, 10000 Cycles (ASTM D4060-01)	1.0021
Puncture (kgf)	9
Compressive strength @ 28 days (n/mm ²) (ASTME154)	>40
Pot life	30min at 30°C and will be shortened at higher temperatures
Shelf life	1 year when unopened
Storage condition	Store in a dry cool place
Packaging	Damp MasterA: 5kg/pail Damp MasteB: 20kg/Pail

Important Notes

- Minimum ambient and substrate temperature is 5°C.
- Never apply more than 2 kg/m² of **Damp Master 2K** in one single layer.
- Apply only to clean, sound substrates – surfaces should be well dampened but free of surface water and leaks.

Green Label Test Data

Heavy Metals:

(EPA 3025 / EPA 6010B : ICP)

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

Volatile Organic Compounds

(ISO 11890-2) (g/L) 0.63

Total Halogenated Organic Solvent

(ISO 11890-2) (%) Not Detected

Total Aromatic Organic Solvent

(ISO 11890-2) (%) Not Detected

Epichlorohydrin

(ISO 11890-2) (%) Not Detected

N-Methyl Pyrrolidinone

(ISO 11890-2) (%) Not Detected

Formaldehyde

(High Performance Liquid Chromatography) (%) Not Detected

Alkyl Phenol Ethoxylate

(LCMS-MS) (%) Not Detected

Flash Point

(ASTM D3828-07a) (°C) > 61

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 must be thoroughly saturated with water prior to application of first coat of **Damp Master 2K**. 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 **Damp Master 2K** can be added 4kg of water for smooth application.

Consumption

Standard coating system:

Damp Master 2K applied in minimum two coats (exclude primer)

1 x coat of **Damp Master 2K** at 0.2kg/m²

2 x coats of **Damp Master 2K** at 1.0 kg/m²/coat

Water retaining structure coating system:

Damp Master 2K applied in minimum three coats (exclude primer)

1 x coat of **Damp Master 2K** at 0.2kg/m²

3 x coats of **Damp Master 2K** at 1.0 kg/m²/coat

Application

Dilute 1 portion of **Damp Master 2K** permeable primer with 3 portions of clean water and apply directly to the surface in order to improve the bonding.

Apply **Damp Master 2K** to construction surface by using brush, roller or spray method. The time interval between coats shall be 4-8 hours, and make sure that the first layer of waterproofing has been dried and formed as membrane.

Over Coating

After the primer, **Damp Master 2K** 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.

Curing

For optimum performance, **Damp Master 2K** should be allowed to cure for 24 hours before the finishing concrete, tiles etc and during this time precautions must be taken 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 **Damp Master 2K**. In case contact with eyes, flush immediately with clean water and seek medical assistance if symptoms persist.



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