

NIPPON CM STANDARD
Updated July'17

Description:

Nippon CM Standard is two component acrylic polymer modified cementitious waterproof slurry. It seals static cracks, pores and voids of all masonry and concrete to prevent water ingress.

Uses:

Nippon CM Standard is suitable for below ground tanking waterproofing and above ground wet areas waterproofing applications such as:

- Pile head and foundations
- Basement walls
- Portable water tank, water reservoirs
- Bathrooms, toilets, kitchen, yards, sauna and other wet areas
- Lift pits, scupper drains, sumps pits
- Swimming pools, infinity pools and overflow channels
- Ponds and fountains


Advantages:

- Excellent waterproofing performance with high resistant to both positive and negative water pressure
- Breathable
- Excellent for damp proofing basement and below grade surface
- Good adhesion to wet surface and green concrete
- Non-toxic, ideal for portable water
- Cold apply and easy to apply
- Excellent resistance to soil chemicals, chlorides, sulphates, dilute acids and alkalis.
- Anti-carbonation and anti-chloride ion diffusion

Product Type	Product Grade	Packsize	Finishing	Color	Substrate
Cementitious Waterproofing	Nippon CM Standard Part A Nippon CM Standard Part B	20kg/bag 5kg/pail	cementitious	Grey	Concrete

Application Data

Application temperature	: 5°C to 45°C
Service temperature	: -5°C to 80°C
Theoretical coverage	: 1.0kg/m ² /coat

Typical Technical Data

Properties	Nippon CM Standard	Test Standards
Pot Life at 30°C, minutes	20	-
Specific Gravity	1.60-1.80	-
Drying Time, hours	2-3	-
Toxicity	Non-Toxic	MS1583/BS6920
Adhesion to Concrete, N/mm ²	>1.0	ASTM D4541
Positive water pressure resistance, bar	5	DIN 1048
Negative water pressure resistance, bar	3	EN 12390
Water absorption, %	< 1	
Portable water compliance	compliance	BS6920/MS
Shelf Life	12 months	-

*All values given are subject to 5-10% tolerance

Application Method
Substrate Preparation
Concrete Substrate

The substrate must be thoroughly clean and dry, free from dust, grease and oil. All the contaminants, previous waterproofing and impurity must be removed till bare substrate. Any cracks, honey combs, water leakage area should be repaired by Nippon Repair System (for more detail, please refer to Nippon Technical Department) before the waterproofing work proceed. The substrate must be sound. The concrete surface should be flat and free from holes and undulations. Any holes and undulations should be resurfacing with Nippon Scratch Coat System. The surface should be clean smooth and have a slope of at least 1% to allow water run-off.

Mixing

Pour the **Nippon CM Standard Part B** (the liquid part) into a suitable sized container and slowly add the **Nippon CM Standard Part A** (the powder part) to the liquid, and mix using a slow speed drill at 300-400 rpm fitted with suitable paddle until a lump free creamy consistency is obtained. Do not mix more material than that can be used within 20 minutes. Do not add any additional water to the mixture.

Application

Pre-wet the substrate surface with clean water. Apply the first coat at a rate of 1kg/m²/coat to completely cover the holes, cracks and etc with a soft bristled brush or roller. Once the first coat is torch dry, apply the second coat at a rate of 1kg/m²/coat in order to achieve the required total dry film thickness at 1mm. The second coat shall be applied at right angles to the first coat.

For a reinforcement waterproofing system, apply a layer of Nippon CM Mat, an alkali resistant mat, onto the first coat of **Nippon CM Standard** while still wet. Apply second and third coat of **Nippon CM Standard** at a rate of 1kg/m²/coat to achieve a total final dry film thickness at 1.5-2.0mm. Each subsequent coat shall be applied at right angles to the previous coat.

Right Angle and Corner Treatment

Right angle and corner should have 25mm **Nippon Latex** modified cement sand angle fillet.

Protection

The membrane shall be protected from damaged due to ongoing construction activities or backfilling aggregates by either 50mm cement sand protection screed

Recommended Waterproofing System
Concrete Substrate

Waterproofing (standard) : **Nippon CM Standard** at 1.0kg/m²/coat
 : **Nippon CM Standard** at 1.0kg/m²/coat

Environmental Conditions During Application

1. Apply temperature: 5-45°C. Do not apply when the surface to be coated is less than 3°C above the dew point.
2. The humidity for application is 30-80%

Storage and Transportation

This product should be stored in original container in a shaded or cool and adequate ventilation warehouse. The storage temperature should be 15-35°C. This product should be away exposure from rain, UV, sunlight, source of flame and heat. When transporting, care must be taken. Failure to comply with the recommended storage may result in considerable premature deterioration of the product and shorten its shelf life.

Cleaning

Clean up equipment or tools with **Water** immediately after use.

Safety Precautions

- Keep part A and part B tightly closed in original packed bag and container
- Away from direct expose to sunlight
- Always use protective hand gloves, google and dust mask when handling or applying **Nippon CM Standard**
- Dispose off any waste in accordance with the appropriate Environment Quality Regulations

Note

The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself. We reserve the right to alter the given without prior notice