

NIPPON PAINT PRIMECRETE *(formerly known as Nippon LM Primer C)*
Updated Nov'22
DESCRIPTION

NIPPON PAINT PRIMECRETE is a two-component solvent free moisture tolerant epoxy primer that cures completely even under the presence of high moisture.

USES

NIPPON PAINT PRIMECRETE is suitable to be used on prepared green concrete and other high moisture concrete which could not be cured sufficiently to accept moisture sensitive finishes. It should not be used on concrete with high hydrostatic or osmotic pressure.

ADVANTAGES

- Solvent free and thus odourless
- Moisture tolerant during cure
- Can be applied on >90% RH concrete
- Excellent adhesion for over-layment

Product Type	Product	Pack Size	Finishing	Substrate
Primer for damp concrete	NIPPON PAINT PRIMECRETE	Part (A) : 3.4kg / pail Part (B) : 1.6kg / pail	Clear after cure	Concrete

Application Data

Mixing Ratio (Weight Ratio)	: Part A: Part B = 68: 32
Pot Life at 25°C, minutes	: 15-30
Drying Time at 25°C -30°C, hours	: 4-6
Recoat Time, hours	: 12
*Theoretical Coverage, kg/m ²	: 0.20 (Actual coverage depends on substrate condition, application method, application condition, etc.)

Typical Technical Data

Form	: Liquid
Color	: Clear
Solid Content, %	: 100
Viscosity, mPas	: Approximately 1500
Adhesion Strength, MPa	: ≥ 1.5

Application Method
Surface Preparation:
Concrete Substrate

The substrate must be thoroughly clean and dry, free from dust, paint residues, chemicals, algae, laitance, 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 PAINT PRIMECRETE** and filler as scratchcoat.

The old concrete surface should have an adhesion pull off strength of minimum 1.5 N/mm² or compressive strength of minimum 25 N/mm².

Mixing

NIPPON PAINT PRIMECRETE is supplied in proportionate quantities in 2-component containers. The entire contents of the Component A is mixed and poured into a clean mixing barrel. Then empty Component B into the mixing barrel and mix homogeneously for at least 90 seconds using a mechanical stirrer. Use a 300 - 500 rpm slow-speed drill, with a spiral mixingblade or Jiffy mixer.

Move the mixing blade in circles around the inside edge of the pail from bottom to top. The inclusion of air in the stirring process must be avoided.

The mixture is poured onto the surface in portions and spread with a roller. On porous and heavily absorbent concretes a second or third application is advisable.

The mixing ratio should be strictly controlled and avoid partially mixing. The mixture must be finish applied in 30 min after mixing.

Overcoating

Subsequent finishing or overlayment should be applied once the primer becomes tack-free but before the primer completely hardens which is within 24-hour time.

Environmental Conditions During Application

- Apply temperature: 15-35°C. Do not apply when the surface to be coated is less than 3°C above the dew point.
- The humidity for application is 30-80%
- During application of the paint, naked flame, welding operations and smoking should not be allowed and adequate ventilation should be provided.

Storage and Transportation

This product should be stored at shaded or cool and adequate ventilation warehouse. The storage temperature should be 15-40°C. This product should be away exposure from rain, sunlight, source of flame and heat. When transporting, care must be taken. It is always kept container in a secure upright position.

Cleaning

Clean up equipment or tools with thinner immediately after use.

Safety Precautions

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Dispose off any waste in accordance with the appropriate Environment Quality Regulations.

Note

*Theoretical Coverage is based on a mathematical formula and does not consider Loss Factor.

$$\left[\frac{\text{Volume Solid } \% \times 10}{\text{Dry Film Thickness } (\mu)} \right] = \text{m}^2/\text{lit}/\text{coat}$$

This theoretical coverage rate has been calculated from the volume solids of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry of the article being coated, the skill of applicator, method of application etc. when estimating quantities required for a particular job.

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.