

NIPPOCEM CRYSCOTE *(formerly known as Nippon Admix WP301)*
Updated '22
DESCRIPTION

NippoCEM CRYSCOTE is nano size deep penetrating waterproofing admixture, that penetrates into capillary pores of mineral substrates, and reacts with the atmospheric moisture or pore water in the substrate, thereby generating the active ingredient that greatly lowers the water absorbency, and hence blocking liquid water penetrate into the building materials

NippoCEM CRYSCOTE reduces the water absorption of construction materials but breathable. As a result, water vapour can escape unhindered from the masonry, and any damp can dry out, and also prevent efflorescence. **NippoCEM CRYSCOTE** enhance the durability of reinforced concrete by preventing chloride-induced and carbon dioxide-induced corrosion

USES

NippoCEM CRYSCOTE is suitable for impregnating waterproofing applications to new and existing buildings such as:

- Concrete wall and slab
- Masonry wall
- Shower wall
- Splash zone

ADVANTAGES

- Excellent depth of penetration
- Immediate effect on preventing water absorption
- Excellent resistance to alkaline and efflorescence
- Breathable
- Prevent chloride induced corrosion
- Prevent carbon dioxide induced corrosion
- Increase paint adhesion
- Substrate reinforcement by nano-scale network formation
- Fast application and tack-free drying

Product Type	Product	Pack Size	Finishing	Substrate
Penetrating Waterproofing	NippoCEM CRYSCOTE	20L	Clear	Concrete, Masonry

Application Data

Drying Time (25-30°C)	: 1 hour
Recoating Time	: 1 hour after the first coat is fully penetrating and the coated surface is dry
*Theoretical coverage	: 0.1-0.3 L/m ² per coat (actual coverage is dependent on substrate condition, application method, application condition and finishing appearance). It is recommended to go for actual application to estimate the practical coverage for project.

Typical Technical Data

Form	: Liquid
Color	: Colourless, hazy
Water Absorption Reduction	: Immediate effect

Application Method
Substrate Preparation
Concrete Substrate

Remove all powdery residues, loose chalk, dust, fungus, algae and foreign matter. Treat any areas affected by fungus growth with **Nippon Paint Fungicidal Wash Solution**. Repair cracks, uneven surfaces with **NippoBOND** modified cement mortar. Surfaces to be coated must be cleaned thoroughly and dry, it must be free from dirt, grease and other foreign matters. Allow all surfaces to dry completely prior to coating.

Application

This product is designed for short hair pile roller, brush and low-pressure air-less spray application. Allow first neat coat of **NippoCEM CRYSCOTE** to dry thoroughly, prior to second neat coat application. The second neat coat should be applied in the opposite direction (right angles) to the first coat as this will allow the waterproofing to be distributed more uniformly for penetrating. Allow the final coat to cure for 24 hours before applying protection screed, plaster/render or other finish.

Recommended Waterproofing System
Concrete Substrate (Standard)

Waterproofing First Coat	: NippoCEM CRYSCOTE	0.1 – 0.3 L/m ² /penetrating coat
Waterproofing Second Coat	: NippoCEM CRYSCOTE	0.1 – 0.3 L/m ² /penetrating coat

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 15-25°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. Failure to comply with the recommended storage may result in considerable premature deterioration of the product. Stir the product thoroughly prior to usage. All PU based products are greatly susceptible to attack by moisture and humidity, if not stored properly. It is advised to finish use all the material once opened to avoid skinning.

Cleaning

Clean up equipment or tools with water 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.
- Material must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- 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.