

## Nucem Primer

### Bonding Tack Coat & Reinforcement Corrosion Protection

#### Description

A two component primer/tack coat designed to bond new cement based products to existing concrete surfaces. Initially developed for use with the Nucem range of cementitious repair compounds, the primer is characterised by its excellent adhesion to both concrete and steel reinforcement. The formulation is based on a water dispersible epoxy resin containing cement which provides an alkaline environment to protect steel reinforcement from chloride and carbon dioxide attack.

#### Advantages

- Long usable life
- Provides optimum bond strength to concrete & steel
- Suitable for both wet & dry substrates
- Provides reinforcement corrosion protection
- Ideal for situations where retarding surfaces is not feasible

#### Technical Information

Resin	Water dispersible epoxy
S.G.	1.1
Pot life @20°C	2.5 hours
"Tack" duration @20°C	2 - 3.5 hours
Coverage	3 - 5m <sup>2</sup> per kg
Bond strength (Independently assessed by Taywood Testing)	>2.0 N/mm <sup>2</sup> Bond stronger than the substrate and the repair material.

#### Surface Preparation

Preparation shall be undertaken to leave clean, sound exposed surfaces, free from all contaminants, oil, grease, plant growth, dirt, loose particles, debris and laitance must be removed. Grit blasting, steam cleaning or water jetting are preferred methods.

Saw-cut the perimeter of damaged or spalled areas, forming good shoulders and break out defective concrete to the required depth, using mechanical equipment or high pressure water-jetting to ex-posed sound concrete.

All rust scale should be removed from any exposed steel preferably by grit blast cleaning.

If the presence of chlorides has been determined, it is essential that the cleaning process is completed by pressure washing with clean water over the whole exposed location of reinforcing steel to ensure the removal of all residual chloride contamination from the pitted surface of steel.



#### Mixing

Mix full packs only.

Nucem Primer is mixed by adding the contents of the base to the hardener container and mixing mechanically till a homogenous consistency is achieved. Usable life 2 - 3 hours.

#### Application Instructions

Immediately following preparation and cleaning, Nucem Primer should be applied to protect reinforcement. Apply a single coat, ensuring that exposed steel is fully coated. Special attention should be paid to the backs of the steel bars and where steel bars are tied together.

For situations where presence of chlorides has been determined, consideration should be given to application of an additional coat of Nucem Primer.

Prepared concrete should be coated with Nucem Primer using a stiff brush, ensuring it is thoroughly worked into the surface. Nucem Primer may be applied to either dry or damp surfaces; we recommend that surfaces are damp, to assist spread.

Coverage is 3 - 5m<sup>2</sup> per kg depending on surface profile.

Install repair mortars, renders or screeds within 3 hours of the primer application, while primer remains tacky. Should primer become tack-free, the area should be re-primed prior to the installation.

Clean all tools & mixing equipment immediately after use with clean cold water.

#### Packaging

Nucem Primer is supplied in 1kg units and 5kg units (coverage 3 - 5m<sup>2</sup> per kg).

#### Storage

The shelf life is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

## Health & Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

## Limitations

Applications should not be made when temperatures are below 5°C unless measures have been taken to protect materials in storage and prior to use.

## Disclaimer

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied themselves independently as to the suitability of our products for their own particular purpose. In no event shall Nufins be liable for consequential or incidental damages.

Users must always refer to the most recent issue of the Technical Datasheets, copies of which will be supplied on request.

## Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical contacts are available to provide further information and arrange demonstrations.