

TECHNICAL DATA SHEET

NuCote Epoxy Coving Mortar 3 Component Trowel Applied

PRODUCT DESCRIPTION

NuCote Epoxy Coving Mortar is a three-component, solvent free, trowel applied epoxy coving mortar, designed for use with our **NuCote Polyurethane Flooring Systems**. It is used to give a seamless finish for floors as skirtings as well as wall applications in process bunds and tanked areas. **NuCote Epoxy Coving Mortar** has the ability to withstand chemical attack. The system consists of a pre-weighed three parts kit. It comes pigmented but, can be over-coated to accommodate a range of textures and cures to a hard chemical resistance with a slightly textured finish.

TECHNICAL DATA

DESCRIPTION	RESULTS
Pot Life (Minutes)	60 (25°C)
Specific Gravity (g/l)	2.2
Touch Dry (Hours)	6 hrs
Recoat Time (Hours)	8 - 24 hrs
Solids Content	100 %
Compressive strength (MPa)	> 60 MPa
Tensile Strength (MPa)	> 10 Mpa
Coverage	3.00 Kg/ linear m

Note: The values below are average figures achieved in laboratory tests.

CHEMICAL RESISTANCE	
Ammonia 10 %	Sugar Solution
Concentrated citric acid	Bleach
Acetic acid 50 %	Distilled water
Methanol	Lactic acid 10 %
Ethanol	Sulphuric acid 50 %
Inorganic Acid	Petrol
Fuels	Engine Oil
Hydraulic Oils	Xylene
Solvents	

Some staining and discoloration may occur with some chemicals, depending on the dwell time, temperature, type of chemical and degree of housekeeping employed. This does not affect the product service integrity or durability.

ADVANTAGES

- Easy to clean.
- High abrasion resistance.
- Solvent free, no odour during applications.
- Seamless.
- Limited pot life.
- Fast cure.

APPLICATION AREAS

- Food, beverage & Dairies processing.
- Soft drinks production facilities.
- Pharmaceutical.
- Warehouses.
- Chemical manufacturing plant.
- Heavy duty traffic areas
- Workshops / Engineering areas.

PACKAGING

NuCote Epoxy Coving Mortar is supplied as a three component _____ kit , with a cover rate of _____ m² per litre.

STORAGE AND STABILITY

NuCote Epoxy Coving Mortar Part A and Part B have a shelf life of 12 months from date of delivery when stored in the original containers in a cool, dry place. The aggregate component Part C has a shelf life of 24 months if stored in unopened packs in a dry store under cover at temperature between 10°C and 30°C. Only mix full packs.

SUBSTRATE

Concrete and polymer-modified screeds to the correct strength requirements. Please liaise with the supplier if unsure.

APPLICATION CONDITIONS

Ideal ambient and substrate temperature range is 15 - 22°C to achieve best results. Heating or cooling equipment may be required outside this range, to achieve the ideal temperature condition. The liquid and aggregate can be stored in a cool or warm area to control product temperature and working time. The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, from before priming to at least 48 hours after application.

SURFACE PREPARATION

Inadequate preparation will lead to loss of adhesion and failure. Grinding or light vacuum-contained shot blasting is therefore preferred. Percussive scabbling or acid

etching is not recommended.

Mechanical preparation of the substrate is important before priming with either **NuCote GP** or **MT Primer** takes place. The substrate should be structurally sound and free of oil, dust and debris, grease, paint, corrosion deposits, laitance, or other surface deposits. Consult NuCote Technical sales staff for advice on substrate survey and preparation.

• **New Concrete Floors:**

The base should be a minimum of Grade RC30 of BS 8500-2:2002 and should not contain a water repellent admixture. The surface strength when assessed using a rebound hammer should be above 25 or the surface tensile strength should exceed 1.5 MPa.

Laitance and any surface sealer or curing membrane should be removed by mechanical means such as shot blasting or grinding to expose the coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment. For concrete bases in contact with the ground, a damp-proof membrane should have been incorporated into the slab design.

• **Old Concrete floors:**

All laitance and surface contamination, e.g., oil, paint, and rubber, should be removed by mechanical means such as shot blasting or grinding to expose coarse aggregate. After surface preparation, all loose debris and dirt should be removed by vacuum equipment.

Heavy oil or grease must be removed mechanically, by steam cleaning or biological treatment, then by high pressure blasting followed by the application of **NuCote Oil Tolerant Primer**. Where oil or grease contamination has been severe or of long duration, none of these methods may prove satisfactorily and, in this case, removal of the affected base would be necessary.

PRIMING

NB: Prior to carrying out any work, the concrete substrate should be tested to determine the moisture vapour emission rate (MVER) according to test method ASTM F1869 or internal relative humidity (IRH) according to test method ASTM F2170. For concrete slabs with an MVER of less than 3 lbs/1000 ft²/24 hrs, use **NuCote MT Primer**, if MVER is between 3 – 5 lbs/1000 ft²/24 hrs, use **NuCote MT Primer** one coat at 200 µm wet film thickness.



APPLICATION

NuCote Epoxy Coving Mortar should be applied on a tacky primer. The maximum over-coating time at 20°C is 48 hours. If the primer has been left to cure to a non-tacky state, a further primer coat is required. If the primer has been allowed to cure for more than 48 hours, then the applied primer will require a solvent wipe with toluene before re-priming.

NuCote Epoxy Coving Mortar is a three-component product. Thoroughly drain the contents of the hardener component into the base component and mix for a minimum of two minutes. The resulted mixture should be transferred into a rotary drum mixer and the aggregate component loaded and mixed in stages. Then mix for three minutes or until a lump free mix is obtained. Apply to primed area and finish with a steel float and coving trowel.

POT LIFE AND CURING

NuCote Epoxy Coving Mortar has a ± 60 minutes pot life at a product and ambient temperature of 25°C. The product can be applied at ambient temperatures between 10 and 25°C. Should the temperature increase, an accelerated reaction can be expected.

CLEANING

Clean hands and skin immediately after use with industrial hand cleaner. Clean tools and equipment immediately after use with **NuCote Cleaner A**.

LIMITATIONS

- Working temperatures between 10 and 25°C.
- **NuCote Epoxy Coving Mortar** will not accommodate movement cracks.
- Avoid contact with skin.
- Do not release into sewer or surface water.

Do not proceed with the application if the atmospheric relative humidity is or is anticipated to more than 90% or if the surface temperature is less than 3 % above the dew point.

SAFETY AND HANDLING

NuCote Epoxy Coving Mortar Part A contains epoxy resins. Use only with adequate ventilation. Avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing and gloves should be worn when handling this product.

NuCote Epoxy Coving Mortar Part B contains amine compounds. Use only with adequate ventilation and avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing should be worn and contact with the body avoided. All sources of ignition should be removed.

NuCote Epoxy Coving Mortar Part C contains sand aggregate. Use only with adequate ventilation and avoid breathing of dust.

HEALTH AND SAFETY INFORMATION

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If inhaled move to fresh air. Consult a physician after significant exposure. If swallowed, clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. In case of skin contact, take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician when in contact with existing open wounds.

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological, and other safety-related data.

The Material Safety Data applicable to the handling of urethane raw materials should be read, understood, and rigidly adhered to. These are available on request from NATIONAL URETHANE INDUSTRIES (Pty) Ltd.

In accordance with ISO 9001:2015 and the Occupational Health and Safety Act (Act 85 of 1993), herewith Product and Safety Data Sheet.	
We hereby confirm that we have received a Product and Safety Data Sheet for NuCote Epoxy Coving Mortar system and are returning the obsolete copies.	
COMPANY NAME:	
SIGNATURE:	
NAME:	
DATE:	

CAUTION

The information contained in this bulletin is to the best of our knowledge true and accurate but any recommendations or suggestions, which may be made, are without guarantee since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

