

TECHNICAL DATA SHEET

NuCote NuCem Cementitious Coating for Floors

PRODUCT DESCRIPTION

NuCote NuCem is a self-levelling, twin pack, high performance, cementitious decorative screed compound which is laid and styled according to the contractors and client preference. **NuCote NuCem** has been specially formulated to produce a hard wearing, smooth, crack free, flat surface while being very easy to apply and fast curing. This system is used in various flooring market sectors i.e.: Residential seamless floors and Commercial environments seeking a more modern and minimalistic look and feel.

ADVANTAGES

- Dimensionally stable.
- High flow properties
- Self-healing properties up to 30 minutes.
- Applied directly onto prepared concrete surface using **NuCem Primer**.
- Self-levelling
- Trafficable within a few hours.
- Non-toxic.
- Available in a variety of cement-based colours.
- Visual Design guides available on our website.

APPLICATION AREAS

- Overlayment for new floor coverings such as standard concrete, various tiles etc.
- Refurbishing of old concrete floors.
- Levelling of existing floors.
- Residential homes.
- Commercial environments i.e., Office blocks, shops, salons, showrooms.

TECHNICAL DATA

DESCRIPTION	RESULTS
Compressive Strength	10 – 15 N/mm ² (1 Day) > 50 N/mm ² (28 Days)
Flexural Strength	5 – 9 N/mm ² (28 Days)
Shrinkage	< 0.5 mm/m
Bond strength	≥ 2 N/mm ²
Abrasion Resistance	250 mm ³
Setting time	40 – 50 Minutes (Initial Set) 70 Minutes (Final Set)

PACKAGING

NuCote NuCem is supplied as a two-component 26 kg kit with a yield of 17 L.

STORAGE AND STABILITY

Store in a cool, dry place on pallets off the ground. Area always to be covered and avoid direct sunlight and high humidity. Shelf life is 6 months from date of manufacture in original packaging.

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SURFACE PREPARATION

Concrete substrate must be structurally sound. Remove all oil, grease, paint, corrosion, dust, and surface deposits. This can be done by wire brush or sand blasting. Ensure the surface is dry and prime with **NuCem Primer** or **NuCote MT Primer** to improve the bond.

MIXING

- Mix with a mechanical low speed mixer (maximum of 600 rpm).
- Mixing water temperature: 15 - 25°C.
- It is important that the water/powder ratio is strictly adhered to.
- Mix **Part B** 1 kg Liquid with 5l of water and add the 25Kg Bag of Powder (**Part A**).
- Mix to a consistent flowable stage, lump free.

APPLICATION

Apply the **NuCote NuCem** onto the primed substrate. Drying time will depend on temperatures and the substrates. Various floating techniques can be used to smooth and style the surface to the required look and feel of the client.

Application is normally done at 3mm but can be applied thicker if required. Please ensure the screed is properly dry before applying the sealer coatings as this can cause debonding and bubbling issues.

SEALING / OVERCOATING OPTIONS

The following sealers can be used to seal the **NuCote NuCem** systems again dependant on the clients and contractor’s requirements.

- **NuCote Colour Retainer**
- **NuCote PU Sealer** (Single component water-based sealer).
- **NuCote UVC** Clear Gloss Coating.
- **NuCote UVC** Clear Matt Coating.

LIMITATIONS

- Do not use **NuCote NuCem** at temperatures below 9°C. Avoid excessive heat (30°C and higher).
- Slab temperature: 10 – 25°C.
- Foot traffic is allowable in approximately 3 hours.
- Application thickness: 3 - 15 mm.
- Floor covering installation: After 24 hours, depending on thickness and ambient conditions.

COLOURS

	Bavarian Cream
	Bittersweet
	Black Forest
	Careless Wisper
	Cinnamon Toast
	Cracker Bread
	Crème Brulé
	French Nougat
	Frozen Oreo
	Mochaccino Coffee
	Mustang Alley
	Soft Serve
	Timber Wolf
	Tumbleweed
	Urban Spirit
	Wild Truffle

SAFETY AND HANDLING

Please read the Materials safety datasheet as supplied by us for this product to ensure compliance with the OHSA NO. 85 of 1993 act. The finishes system is not hazardous to health or environment.

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 epoxy 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 NuCem 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.

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