

**TECHNICAL
DATA SHEET**

NuCoteTM Epoxy PW Coating
Potable Water Epoxy Coating

PRODUCT DESCRIPTION

NuCote Epoxy PW Coating is a two-component, solvent free, high performance, high-build, and chemical resistant epoxy coating which can be used in contact with potable water. The system consists of a pre-weighed Part A and Part B and can be brush or roller applied. Once cured, **NuCote Epoxy PW Coating** provides a hard wearing, abrasion and chemical resistant finish. It can be applied both on concrete and steel substrates

ADVANTAGES

- Easy to use (roller and brush applied).
- Good abrasion resistance.
- Solvent free, no odour during applications.
- Resistant to a wide range of industrial chemicals.
- Available in a wide range of colours.
- Non-toxic.
- Resistant to fungal attack.

APPLICATION AREAS

- Good chemical resistance coatings.
- Steel pipe coatings.
- Coating of water containing structures.
- Floor and wall coatings
- Production facilities coatings
- Tanks and silo coatings

TECHNICAL DATA

DESCRIPTION	RESULTS
Pot Life (Minutes)	60 (± 5) Minutes (25°C)
Specific Gravity (g/l)	1.47 (± 0.05)
Touch Dry (Hours)	8 - 15 hrs
Recoat Time (Hours)	16 - 36 hrs
Solids content	100 %
Minimum WFT	200 – 250 µm
Coverage (m ²)	5 m ² per litre (at 200 µm WFT)
Compressive strength (MPa)	> 60 MPa
Tensile Strength (MPa)	> 10 MPa
Slant Shear Strength (Mpa)	> 25 Mpa

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

CHEMICAL RESISTANCE

Ammonia 10 %
White Spirit
Saturated Sugar Solution
Concentrated bleach
Lactic Acid 10 %
Sulphuric acid 50 %
Sodium Hydroxide 25 %
Kerosene
Petrol
Chlorinated water
Distilled water

©Copyright 2023 in respect of this material is reserved in favor of RIGIFoam (Pty) (NuCote) Ltd and the reproduction or editing thereof is strictly prohibited.

PACKAGING

NuCote Epoxy PW Coating is supplied as a two component 1 Litre, 5 Litre and 18 Litre kit.

STORAGE AND STABILITY

Both **NuCote Epoxy PW Coating 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. Failure to do so will result in a reduction of shelf life.

SURFACE PREPARATION

Mechanical preparation of the substrate is important before priming with **NuCote 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. The surface should be prepared by captive blasting to exposed aggregate surface. Any cracks or bug holes should be filled with **NuCote Epoxy Paste** or **NuCote Epoxy Grout** after application of **NuCote MT Primer**. Consult **NuCote** Technical sales staff for advice on substrate survey and preparation.

SUBSTRATE REQUIREMENTS

Concrete substrates to be of a good wood float finish or a steel floated finish with a minimum compressive strength of 25 MPa and 1.5 MPa in tensile adhesion strength. The surface must be laitance free with no dust or loose materials. The moisture content should always be monitored and be less than 5 % with no rising damp. Ensure DPM's are placed under the concrete screeds.

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 or use any approved and reliable substrate moisture testing equipment. For concrete slabs with an MVER of less than 5 lbs/1 000 ft²/24 hrs, use **NuCote GP Primer** or **NuCote PU Primer** one coat at 200 µm wet film thickness for resinous floors. If the MVER is over 5 lbs/1 000 ft²/24 hrs use **NuCote MT Primer** one coat at 200 µm followed by another coat of **NuCote Moisture Barrier Primer** with scatter aggregates (whenever scatter aggregates are specified).

POT LIFE AND CURING

NuCote Epoxy PW Coating has a 50 - 60 minutes pot life at an ambient temperature of 25°C. The product can be applied at temperatures between 15 and 30°C. Should the temperature increase, an accelerated reaction can be expected.

MIXING

Premix both base (Part A) and hardener (Part B) to disperse any settlement and ensure homogeneity. Add all of part B to part A and mix using a slow speed drill with an NuCote approved mixing paddle for 2 - 3 minutes until both components have fully dispersed and a homogenous, uniform colour is achieved. Ensure to rotate the mixer inside the container. Only mix full packs.

APPLICATION

Apply **NuCote Epoxy PW Coating** to achieve a minimum of 200 – 250 µm using a squeegee. Scrub the product into the pores with a long handle scrub brush and back roll using a short hair roller to achieve a uniform finish for vertical and horizontal substrate. Where two coats are required, the second coat should be applied within 8 to 24 hours after application of the first coat.

On steel pipes, **NuCote Epoxy PW Coating** can be applied either by brush or roller.

CLEANING

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

LIMITATIONS

- Working temperatures between 15 and 30°C.
- NuCote Epoxy PW Coating** will not accommodate movement cracks.

COLOURS

	Light Grey	RAL 7038
	Basalt Grey	RAL 7042
	Pebble Grey	RAL 7032
	Platinum Grey	RAL 7036
	Emerald Green	RAL 6001
	Beige	RAL 1001
	Oyster White	RAL 1013
	Traffic Black	RAL 9017
	Sky Blue	RAL 5015

WATCH POINTS

Humidity, moisture, and curing of the primers are essential to these systems. The colours are not UV stable however, functional. They may discolour and fade when exposed to direct sunlight or UV. Storage is also vital to ensure the materials remain in a workable condition.

DISCLAIMER

Colours will always vary according to the printed version on our literature. These products are sold according to our standard terms and conditions of sale which is available on request and may not be overridden by any other legal documentation. Whilst the information contained herein is true, accurate and represents our best knowledge, the user must contact NuCote immediately should any complications occur. Site conditions, labour and application issues are out of our control and the contractor holds this liability. Figures for consumption are estimates and theoretical and do not allow for wastage, surface profiles that are not up to standard, porosity, variations in levels etc.

HEALTH AND SAFETY INFORMATION

NuCote Epoxy PW Coating 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 PW Coating 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.

In case of contact with the 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 NuCote.

AUTHORISED TECHNICAL PERSONNEL

Please note that only **NuCote** Authorised Technical Personnel are permitted to change any information in this datasheet or provide recommendations concerning the use of this product. Visit www.nucote.co.za for a current datasheet and materials safety datasheet.

DATASHEET VALIDITY

NuCote makes modifications to its datasheets from time to time when needs arises. Please check the current datasheet on www.nucote.co.za to ensure you use the latest version.

WARRANTIES

NuCote supplies products that comply with the properties as shown on the current product datasheets. **NuCote Epoxy PW Coating** is guaranteed to be free of any manufacturing defects. In the event that products supplied are proved not to comply with these properties, then **NuCote** will replace the non-complaint product or refund the purchase price. Any suspected defects must be reported to **NuCote** in writing within five working days of being detected.

NuCote does not warrant or guarantee the installation of the products as it does not have control of the installation or end use of the products. If **NuCote Epoxy PW Coating** is applied in accordance with the appropriate method statement issued for the specific project, by an approved applicator, and the substrate complies with the minimum substrate requirements and contact slabs have damp proof membranes and good drainage installed prior to the casting of the concrete screed, then the system is to last for the life of the sealer or topcoat applied over it.

We discourage placing **NuCote Epoxy Pw Coating** on slabs with questionable hydrostatic pressure issues or where residual screed moisture content exceed 5 %, on substandard substrate in terms of compressive and tensile adhesion strength, or badly prepared substrate.

NuCote makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other representations, warranties, agreements, promises or commitment expressed or implied. **NuCote** shall not be liable for damages of any kind with respect to purchases or use of **NuCote Epoxy PW Coating**, including remote or consequential damages, down time, delays, and application failures.

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 PW Coating** 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.