

TECHNICAL
DATA SHEET

NuCoteTM Clear Epoxy Resin Solvent Free Epoxy Sealer/Binder

PRODUCT DESCRIPTION

NuCote Clear Epoxy Resin is a two-component, solvent free, high performance epoxy system for sealing of concrete and resinous substrates. **NuCote Clear Epoxy Resin** can also be used as a binder for coloured aggregates and metallic systems. Once cured, it provides a hard wearing, chemical and abrasion resistant floor finish. It is ideally suited for sealing of decorative systems applied onto concrete and other substrates.

ADVANTAGES

- Easy to use (squeegee, roller and brush applied).
- Good abrasion resistance.
- Clear sealer.
- Solvent free, no odour during applications.
- Good levelling properties
- 100 % Solids content

APPLICATION AREAS

- Sealer for concrete.
- Sealer for epoxy.
- Decorative systems in various industries
- Workshops and warehouses.
- Residential and industrial floor coatings.

TECHNICAL DATA

DESCRIPTION	RESULTS
Pot Life (Minutes)	60 Minutes (25°C)
Specific Gravity (g/l)	± 1.06
Touch Dry (Hours)	6 - 8 hrs
Recoat Time (Hours)	8 - 24 hrs
Solids content	100 %
Minimum DFT	Minimum 250 µm
Coverage (m ²)	1 Litre/m ² (at 1 mm WFT)
Compressive strength (MPa) ASTM 309	> 60 MPa
Tensile Strength (MPa) ASTM 580	> 10 MPa
Impact Resistance (MPa) ASTM D2794	> 25 Mpa
Bond to Concrete Strength (Mpa) BS 181	> 1.5 Mpa

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

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PACKAGING

NuCote Clear Epoxy Resin is supplied as a two component 5 Litre kit.

STORAGE AND STABILITY

Both **NuCote Clear Epoxy Resin 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** or **NuCote GP 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** or **NuCote GP Primer**. Consult NuCote Technical sales staff for advice on substrate survey and preparation.

SUBSTRATE REQUIREMENTS

Ensure the concrete substrate has a minimum of 25 MPa in compressive strength, 1.5 MPa in tensile strength and less than 5 % moisture content.

Before 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** one coat at 200 µm wet film thickness for resinous floors or NuCote NuCem Primer for cementitious systems. 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 GP Primer** with scatter aggregates (whenever scatter aggregates are specified).

POT LIFE AND CURING

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

MIXING

Add all of Part B to Part A and mix using a slow to medium speed drill with a mixing paddle for 2 - 3 minutes until a homogenous mix is obtained. Ensure to rotate the mixer inside the container. Only mix full packs.

APPLICATION

Apply **NuCote Clear Epoxy Resin** to achieve a thickness of 250 µm minimum using a squeegee, roller, rake, pin leveller and/or brush. Where two coats are required, the second coat should be applied within 8 to 24 hours after application of the first coat.

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 25°C.
- **NuCote Clear Epoxy Resin** will not accommodate movement cracks.
- Slab temperature: > 15°C.
- Foot traffic is allowable in approximately 24 hours.
- Application thickness: 250 µm minimum.

WATCH POINTS

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

DISCLAIMER

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.

STORAGE AND STABILITY

Both **NuCote Clear Epoxy Resin 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.

HEALTH AND SAFETY INFORMATION

NuCote Clear Epoxy Resin 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 Clear Epoxy Resin 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**.

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™ Clear Epoxy Resin** 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.