NuCote™
FLOORING PERFECTION

TECHNICAL
DATA SHEET

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NuCote™ Flakes

PRODUCT DESCRIPTION

NuCote Decorative Flakes / Terrazzo is a coloured polymer-based flakes. These flakes are available in selection of various colours and are of irregular shape and sizes. These hybrid sized polymer flake elements are designed to mimic a marble terrazzo floor look. They provide unlimited customised coloured flakes blending options. They can be fully or partially broadcast depending on the final customised look required. A full broadcast is when the flakes are broadcast until rejection or when one doesn't see the coloured coating underneath.

ADVANTAGES

- Easy to apply.
- Flakes are UV Resistant.
- No odour during applications.
- Available in a wide range of colours.
- Non-toxic.
- Resistant to fungal attack.
- Provides seamless decorative floor finishes.

PRINCIPLE USES

NuCote Flakes is used in the decorative flake flooring system. It can be applied in various residential, commercial and industrial flooring applications.

- Hospitals.
- Schools.
- Showrooms
- Warehouses.
- Garages.
- Retail outlet.
- Kitchens
- Offices
- Residential house floors.

TECHNICAL DATA

- For NuCote UVC: Please consult NuCote UVC data sheet and method statement.
- For NuCote HB Coating: Please consult NuCote HB Coating data sheet and method statement.
- For NuCote Clear Epoxy Resin: Please consult NuCote Clear Epoxy Resin data sheet and method statement.
- For NuCote Epoxy Primer: Please consult NuCote MT Primer or NuCote GP Primer data sheet and method statement.

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DISAVOWAL: The customer acknowledges and understands that after delivery, the goods will have left the control of Rigifoam (Pty) Ltd, and that the customer will be responsible for the unpacking of and connection/installation of the goods. The customer acknowledges that it is his/her further responsibility to ensure that a fully qualified and competent person is used to install the goods to ensure their effective operation. Failure by the customer to ensure the installation of the goods, according to the written instructions of the manufacturer and/or supplier, by a fully qualified and competent person, may result in the failure of the goods, injury, loss or damages to the customer. Accordingly, and in this event, Rigifoam (Pty) Ltd accepts no responsibility for any loss or damages that might arise by reason of death or personal injury to any person engaged in the installation or use of the goods thereafter, subject to the provisions of the Consumer Protection Act 68 of 2008.

PACKAGING

NuCote Flakes is supplied as a 1 Kg pack.

STORAGE AND STABILITY

The storage stability is unlimited is stored as directed. Store at room temperature, in an air-tight container and dry environment, to avoid moisture and humidity that can cause product degradation over time.

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. Grinding is advised as this will maximise adhesion. The surface should be prepared by grinding to exposed aggregate surface. Any cracks or bug holes should be repaired with NuCote Epoxy Paste after application of **NuCote MT Primer**. Install coving if necessary. Follow the structural expansion joints. Consult NuCote technical sales staff for advice on substrate survey and preparation.

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.

APPLICATION

NuCote Flake Application Instructions

After surface preparation and priming, overcoat with pigmented NuCote UVC coating or NuCote HB coating. Mix their Part A and Part B in correct proportions. Follow both the NuCote UVC or NuCote HB coating datasheet. Mix thoroughly with a mechanical mixer at medium speed until uniform colour is achieved. Apply within the stipulated pot life.
Apply the properly mixed NuCote UVC or NuCote HB coating using a roller. Ensure the coat is applied evenly. Whenever required or specified apply two coats within the minimum and maximum overcoating time, depending on the atmospheric conditions.

(a) Apply Full Broadcast Flake

The flakes can be blended to achieve a custom floor look. Remove the flakes from the container and place them in a clean and dry container, tin or bucket. The coating underneath should have adequate wet film thickness and even coverage for the flakes to adhere to. The flakes are applied when the coating is still wet. So immediately after applying the last coat of the undercoat system and while the coating is wet or at least tacky, use spike shoes to walk out on the job and evenly sprinkle the dry flake over the surface. Ensure that the surface is fully and evenly covered by the sprinkled flakes at most 300g per m². Allow the undercoat system to cure and once completely cured, scrap any access flakes from the surface with a trowel. Ensure that no loose or sharp protruding flakes are left on the surface. Sweep or vacuum the floor to remove any excess flakes.

Apply the overcoated clear sealer.

Overcoat with NuCote Clear Epoxy Resin or NuCote UVC Clear Gloss/Matt depending on the finish and performance requirements. To achieve a UV stability, use NuCote UVC Clear Gloss as an overcoat either on NuCote Clear Epoxy Resin or on the flakes broadcasted floor. This is overcoated by using mohair roller to achieve an even application. A minimum of two coats are required, applied as per NuCote UVC data sheet. Note. The NuCote Epoxy Clear Resin is not UV stable.

(b) Applying Partial Flake.

Flakes can be blended to achieve a preferred custom look. Remove the flakes from the container and place them in a clean and dry container, tin or bucket. The coating underneath should have adequate wet film thickness and even coverage for the flakes to adhere to. The flakes are applied when the coating is still wet. So immediately after applying the last coat of the undercoat system and while the coating is wet or at least tacky use spike shoes to walk out on the job and evenly sprinkle the dry flake over the surface. Ensure that the surface is evenly covered by the sprinkled flakes. Apply at most 100g per m² or less of flakes. Allow the undercoat system to cure and once completely cured, scrap any access flakes from the surface with a trowel. Ensure that no loose or sharp protruding flakes is left on the surface. Sweep or vacuum the floor to remove any excess flakes.

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Apply the overcoated clear sealer.
Overcoat with NuCote Clear Epoxy Resin or NuCote UVC Clear Gloss/Matt depending on the finish and performance requirements. To achieve a UV stability, use NuCote UVC Clear Gloss as an overcoat either on NuCote Clear Epoxy Resin or on the flakes broadcasted floor. This is overcoated by using mohair roller to achieve an even application. A minimum of two coats are required, applied as per NuCote UVC data sheet.
Note: The NuCote Clear Epoxy Resin is not UV stable.

Supply:
NuCote supply the following flake systems. This can be blended to achieve a custom look.

- Flakes Beige
- Flakes Black
- Flakes Blue
- Flakes Grey
- Flakes White
- Flakes 3D Brilliant – 45252
- Flakes 3D Brilliant – 45233
- Flakes Terrazzo 1
- Flakes Terrazzo 8
- Flakes Terrazzo 9
- Flakes Terrazzo 10
- Flakes Terrazzo 11

STANDARD BACKGROUNDS Basecoat Colours – Available in NuCote UVC and NuCote HB Coating

Light Grey	RAL 7035
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
Indigo Blue	RAL 5015

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

LIMITATIONS
Working temperatures between 15 and 25°C.

- **NuCote HB Epoxy Coating** will not accommodate movement cracks.
- Avoid contact with skin.
- Do not release into sewer or surface water.

WATCH POINTS
Humidity, moisture, and curing of the primers are essential to these systems. The epoxy-based systems discolour when exposed to direct sunlight or UV. Storage is also vital to ensure the materials remain in a workable condition. PU Coatings will form bubbles when applied over moist substrates.

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
Although **NuCote Flakes** are considered to be non-toxic, it is recommended to take the usual precautions for handling chemicals. Protective clothing and gloves should be worn when handling this product.

For Safety and Handling information on **NuCote UVC, Nucote HB Coating and NuCote Clear Epoxy Resin** systems, refer to the relevant Technical Data Sheet and Safety Data Sheet.

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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 urethane 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™ Flakes** 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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