VUKA THANE

DESCRIPTION

Vuka Thane is a multi-component solvent free self-smoothing, flexible polyurethane system for concrete substrates. Applied at nominal thicknesses from 1mm to 4 mm, it has excellent resistance to chemicals and abrasion.

USES

Ideally suited for use in aggressive environments including chemical process areas, food & beverage industries, dairies, abattoirs, engineering workshops and warehouses.

BENEFITS

Solvent free
40% Elongation providing crack bridging properties
Non-tainting, quick curing
Monolithic seamless finish
High abrasion and impact resistant
Easy to clean and sterilize
Available in a standard colour range
Temperature resistant to dry 60 C
Resistant to a broad range of chemicals including organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic hydrocarbon solvents and ester solvents.

PROPERTIES

The following are typical properties achieved at 20C and 50% relative humidity

Application Conditions:	5 – 30°C, max 70% RH
Service Temp:	60°C max (dry)
Slip Resistance	BS EN 13036-4:2011. Typical values for Four-S Rubber. Dry 81 Wet 26
Abrasion Resistance	SANS 1149:2012
Impact Resistance	ISO6272-1:2011 1kg weight >1.8m 2kg weight >1.5m
Water permeability:	Nil – Karsten Test (impermeable)

Product colours will differ slightly and it is best to obtain actual colour samples where required. See colour chart for full range of standard colours.

Email: info@vukafloors.co.za
Revision date: June 2016

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Bond Strength:	Greater than cohesive strength of 25N/mm^2 concrete > 1.5 N/mm^2 Proceq Dyna
Nonvolatile content	100%
Compressive strength	50Mpa
Tensile strength	10Mpa
Flexural strength	14Mpa
Hardness Shore D	65

CHEMICAL RESISTANCE

For chemical resistance information please contact our Technical Department

SURFACE REQUIREMENTS

Concrete / Grano surfaces must have a minimum compressive strength of 25N/mm^2, a minimum tensile strength of 1.5N/mm^2, be at least 40mm thick. The substrate must be dry, free of oils waxes fats and other contaminants. Vacu-blasting, scarification, abrasive grinding followed by vacuum cleaning is preferred. The surface must show open pores throughout with exposed aggregate. **Acid etching is not acceptable.**

COLOUR STABILITY

This product is not colour fast and will change colour over time especially when exposed to direct sunlight and high intensity lighting. Exhibits a yellowing effect most noticeable in the grey. The discolouring does not compromise the products chemical resistance or physical characteristics.

OPTIONAL FINISHES

Standard finish: Gloss
Optional finish
Matt sealer coat – Vuka Super Satin
MAS - Medium Anti Slip
HAS – Heavy Anti Slip

PRIMING

The prepared substrate must be sealed with Vuka Thane Primer. Porous floors might require two coats.

MIXING

Kit components are pre-weighed for optimum performance therefore never split or proportion a kit. Pre stir base and activator. Add the entire activator to the base and using a slow speed drill (+-300rpm) fitted with a spiral blade mix for 3 minutes.

APPLICATION

Vuka Thane is poured evenly over the appropriate area to be covered, spread the mix evenly with the appropriate size serrated trowel to the specified thickness. Immediately roll with a spiked roller to even and de-aerate the floor system.

CURING

At 25 C the floor can be exposed to light traffic after 24hrs. Heavy service traffic after 2 days.

At 25C constant, excessive traffic, aqueous contact and exposure to aggressive chemicals should only take place after 7 days when full cure has been achieved. At 10C constant, full cure would take a minimum of 12 days.

STORAGE

12 months from date of production if stored in original, unopened and undamaged sealed containers in dry conditions at temperatures between +10 C and +25 C.

HEALTH AND SAFETY

Use of basic principles of industrial hygiene and protective clothing such as gloves, goggles, masks will enable the product to be used safely. Splashes into eyes should be washed immediately with clear water and medical advice sought.

BILL OF QUANTITY DESCRIPTIONS

Contact Vuka Floors for a detailed bill description to suit your specific requirements.

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MODEL SPECIFICATION

Prepare surface and prime with Vuka Thane primer at 4m2/L then install Vuka Thane polyurethane floor compound at 2L/m2 in strict accordance with the technical data obtainable from Vuka Floors. All work to be done by Vuka Floors approved applicators.

REFERENCE PANEL

A reference sample should be installed by the applicator prior to the start of the contract to ensure correct coverage, workmanship and acceptance by the client as a standard for the project.

FURTHER INFORMATION

This product will change in colour over time. Especially when subject to high levels of UV and or chemical attack. For best colour stability consult our technical department. This does not compromise the products physical and chemical resistance characteristics.

Vuka Floors products are guaranteed against defective materials and manufacture and are sold subject to its Terms and Conditions which may not be overridden in any other legal documentation.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience at the date of issuance it is subject to change without prior notice. User must contact Vuka Floors to verify correctness before specifying or ordering. No warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

Figures given for consumption / spread rates are theoretical and do not allow for additional materials due to surface profile, porosity, variations in level and wastage etc.