

VUKA CRETE MD ECF

DESCRIPTION

Vuka Crete MD ECF is a multi-component, water based polyurethane compound incorporating antimicrobial agents, flow applied between 3mm and 4mm thickness. It is specifically formulated to function as an electrostatic conductive (ECF) floor system.

USES

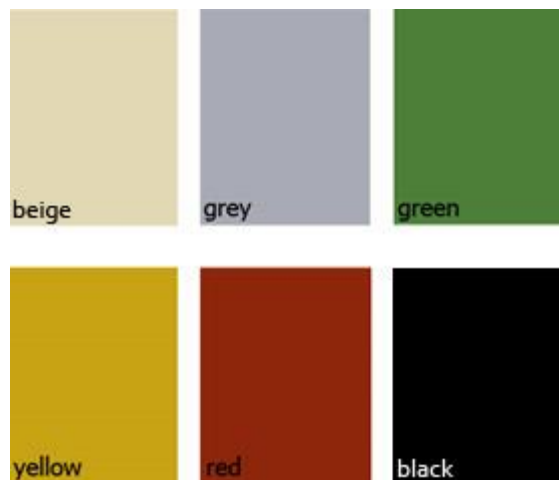
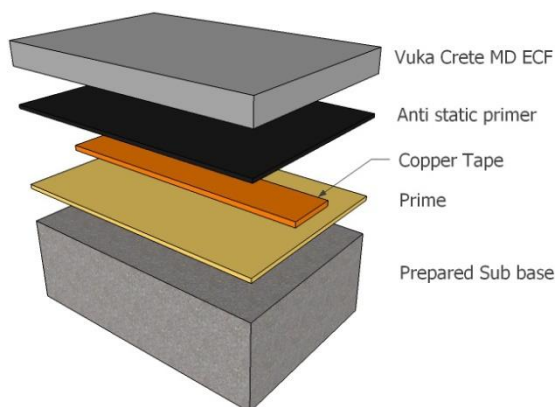
Vuka Crete MD ECF is an anti-static floor system ideal for areas subject to heavy wear but requiring a smooth easily cleanable surface. Used in volatile environments requiring ECF flooring such as ammunitions and explosives facilities.

BENEFITS

- Meets ANSI/ESD S541-2003 requirements
- ECF performance range <math>< 10^4</math> ohms
- 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 wet 60 C and light steam cleaning
- Resistant to a broad range of chemicals



ILLUSTRATION



Product colours will differ slightly and it is best to obtain actual colour samples where required.

VUKA CRETE MD ECF

ANTI MICROBIAL ADDITIVE

The ULTRA FRESH anti-microbial additive incorporated into Vuka Crete MD ECF inhibits the growth of most bacteria and fungi in contact with the floor. This results in a daily hygienic advantage through the use of anti-microbial technology. It is intended to compliment good housekeeping practices and a suitable cleaning regime.

CHEMICAL RESISTANCE

For chemical resistance information please contact our Technical Department

TYPICAL PROPERTIES

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

| | |
|----------------------|--|
| Light traffic @ 20°C | 24hrs |
| Heavy traffic @ 20°C | 2 Days |
| Full cure @ 20°C | 7 Days |
| Compressive strength | >50Mpa SABS 863:1994 |
| Tensile strength | >10Mpa SABS 1253:1994 |
| Flexural strength | >20Mpa SABS 864:1994 |
| Hardness Shore D | 80 |
| Impact Resistance | ISO6272-1:2011 1kg weight >1.8m 2kg weight >1.5m |
| Temperature 4mm | -15 C to 85 C |
| Water absorption | Nil – Contest test. (Impermeable) |
| Bond Strength | Greater than cohesive strength of 25N/mm ² concrete > 1.5 N/mm ² Proceq Dyna |

SURFACE REQUIREMENTS

Concrete / Grano surfaces must have a minimum compressive strength of 25N/mm², a minimum tensile strength of 1.5N/mm², 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.** It is mandatory to cut

grooves into the subfloor to minimise temperature and shrinkage stress. Typically 5mm x 5mm, 150mm from and running parallel with walls, plinths, columns and any finished edge such as expansion joints.

PRIMING

The prepared substrate must be sealed with Vuka Prime 102, porous floors might require two coats. Apply copper tape and prime with Vuka AS Primer. All in strict accordance with Vuka Floors literature.

MIXING

Vuka Crete MD ECF is a pre weighed kit for optimum performance and must not be split. Into a rotary pan mixer empty Part A, Part B, fibers and pigment components. Mix to an even consistency for about 30 seconds. Gradually add the aggregates and mix for 3 minutes until a fully wetted lump free mixture is obtained.

APPLICATION

Vuka Crete MD ECF is poured evenly over the appropriate area to be covered, spread the mix evenly with the appropriate size notched rake to the specified thickness. Immediately roll with a spiked roller to even and de-aerate the floor system.

PRODUCTS REQUIRED

This system is built up as follows
Vuka Prime 102
Copper Tape
AS Primer
Vuka Crete MD ECF

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.

VUKA CRETE MD ECF

CURING

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

If stored in original, unopened and undamaged sealed containers in dry conditions at temperatures between +10 C and +25 C.

Vuka Prime 102: 12 months from date of production.

AS Primer : 12 months from date of production.

Vuka Crete Part A & B: 12 months from date of production.

Vuka Crete Part C: 8 months from date of production. Must be protected from humidity.

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.

MODEL SPECIFICATION

Prepare surface and install Vuka Crete MD ECF water based polyurethane floor compound 4mm thick 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.