

## STONKOTE FLOCOAT – NOTCH TROWEL APPLICATION STONKOTE HIGH BUILD – ROLLER APPLICATION

### HIGH BUILD COATING FOR FLOORS EXCELLENT CHEMICAL RESISTANCE ABRASION RESISTANCE HIGH GLOSS

#### PRINCIPAL USES

Interior floor coating for general industry, prisons, ablution blocks, walkways, food processing plants, hospitals, schools, pharmaceutical and cosmetic.

#### RESISTANCE

**Weather:** Coating will chalk and discolour when exposed to exterior conditions.

**Acids:** Resists splash and fumes of inorganic acids up to 30% concentration, such as Hydrochloric, Sulphuric. Organic acids limited resistance.

**Alkalies:** Resists splash and spillage.

**Petroleum Products:** Resists splash, spillage of Paraffin, Jet Fuel, Diesel Oil, Petrol, Alcohol and Solvents.

**Water and most Salt Solutions:** Excellent resistance.

NOTE: Staining may occur depending on length of exposure time, chemical concentration and temperature.

#### SPECIFICATION

- Flocoat application:** Prepare surface and apply 1 coat at 1-1,5m<sup>2</sup>/litre/coat over primed concrete in accordance with Manufacturers detailed instructions.
- High build application:** Prepare surfaces and apply minimum of 2 coats at 4-5m<sup>2</sup>/litre/coat over primed concrete in accordance with manufacturers detailed instructions.

**Note:** Reference should be made to Technical Data Sheets on the correct use of their products and the necessary safety precautions required before application is undertaken.

#### PERFORMANCE INFORMATION TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Specification
Dry to recoat at 25°C	ASTM D1640	8-12 Hours
Adhesion to concrete	ASTM D4541	>3 MPa
Compressive Strength	ASTM D695	55-60 MPa
Tensile Strength	ASTM D638	20-25 MPa
Flexural Strength	ASTM D790	30-35 MPa
Hardness Shore D	ASTM D2240	80-85
Resistant to waterspot		Yes
Wet Thickness/Coat	ASTM D1212	650-1000 microns
Chemical Resistance	ASTM D1308	Reagents (Tested 1 hour, no effect)

(For specific test, contact Technical Department)

January 2014 SA replaces March 2013 SA

(Stonkote 723)

#### TYPICAL PROPERTIES AT 25°C

Finish	Gloss
Colour	Refer to colour chart 9 Standard colours
Consistency	Flowable Liquid
Volume Solids	100%
Theoretical Coverage per Coat	1. Flocoat: 1-1,5m <sup>2</sup> /litre 2. High Build: 4-5m <sup>2</sup> /litre/coat (min. 2 coats required)
No. of Components	2
Mix Ratio by Volume	Mix complete kit
Pot Life	30-40 Minutes
Apply Over	Prepared concrete or primed steel
Apply By	Spray, notched trowel, mohair roller and spiked roller
Curing Time	24 Hours – service 7 Days – full cure
Thinner	Nil
Shelf Life	18-24 Months
Max Service Temperature	45°C wet/dry
Application Temperature Range	16°C to 35°C
Dew Point	Substrate to be 2°C above dew point
VOC Content	27g/litre

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# SPECIFICATION FOR STONKOTE FLOCOAT – NOTCHED TROWEL APPLICATION STONKOTE HIGH BUILD ROLLER APPLICATION

## DESCRIPTION

This specification deals with the preparation, priming and coating of flat concrete floor surfaces which are subjected to above normal wear, washing or chemical attack.

## SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e. abrasive blasting or grinding. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Carboclean 250 or Carboclean 252) and rinsing with clean water. The surface must show open pores throughout with main aggregate in concrete exposed and have a sandpaper texture. Substrate moisture content should be below 5% and substrate tensile strength above 1.5 MPa. For recommendations or additional information regarding substrate preparation, please refer to surface preparation, technical data sheet or contact StonCor Africa Technical Service Department.

## PREPARING STONHARD FLOORING SYSTEMS OR RECOATING

Before coating a Stonhard floor, all trowel marks and surface imperfections must be removed to produce a smooth surface. Grind the floor using a floor grinder with medium stones and vacuum using an industrial wet/dry vacuum to remove all dust particles. The Stonhard floor is now ready to be coated.

## MIXING

Under no circumstances are the supplied kits to be split. The contents of the base component in the kit are to be thoroughly mixed for 1 minute before use. Empty entire contents of the activator into the base component. Mix thoroughly for 2 minutes with an impeller fitted to a variable speed drill. Transfer mixed material into another mixing container, scraping the sides and bottom of the container and remix for another 2 minutes. This step is critical to ensure complete cross-linking of components is achieved. Do not mix by hand.

## PRIMING AND PATCHING

Apply one coat or two coats, dependant on the porosity, of Stonprime 639 Penetrating Primer at 4 to 6m<sup>2</sup>/litre with a roller to seal pores and achieve a uniform gloss finish. Allow to cure for 8-12 hours before coating. If necessary, patch cracks and holes by filling with Pro-Struct 30/35NS Adhesive or, if badly pitted, skim the surface with the edge of a steel trowel, using Stonkote 723. Allow to cure and sand smooth before coating.

## COATING

Dependant on wear and surface finish requirements, apply by either method 1 or 2.

### 1. Flocoat 1mm Notch Trowel Method (1 coat at 20m<sup>2</sup>/20 litre kit):

Pour mixed material in a bead on the floor and rake out using a 3mm notch trowel, spreading evenly at a thickness of 1,0 – 1,5mm. If necessary, use a mohair or looped roller to even out undulations. Deaerate and level by rolling with a spiked roller for up to 20 minutes after application. Spiked shoes are utilised to walk onto wet material.

### 2. High Build 0,5mm Roller Application Method (2 coats at 4-5m<sup>2</sup>/litre/coat):

Apply a minimum of 2 coats of mixed material out of paint trays using short nap rollers at 4-5m<sup>2</sup>/litre/coat, allowing 8-12 hours between coats. If skilled, trained staff are available, the application time can be shortened by applying the material as a scraper coat with a steel trowel and rolling evenly with short nap rollers.

**NB:** If cold conditions prevail, material is thicker and substrates should be warmed to allow for good flow out of material. An easy cleaning mild non-slip finish can be achieved by overcoating the floor with Stonseal 722 Non-slip Sealer at 6-8m<sup>2</sup>/litre/coat. Variable non-slip finishes can be achieved by broadcasting Fine Texture # 6221 or Medium Texture # 6222 into the 1<sup>st</sup> coat at 2kg/m<sup>2</sup>, sweeping off unbound grit when cured, and sealing with 2<sup>nd</sup> coat of Stonkote 723 method at 3m<sup>2</sup>/litre/coat.

## CURING

At normal temperature conditions, 25°C, the coating system can be exposed to light traffic after 24 hours. Excessive traffic, aqueous cleaning and exposure to aggressive chemicals should only take place after seven days when full cure has been achieved.

## REFERENCE SAMPLE

A trial reference sample should be installed by the applicator prior to start of contract to ensure correct coverages and workmanship.

## COLD CONDITIONS:

Low temperatures decrease flow, delay set and affect water resistance and final appearance. Materials should be conditioned for 16 hours at 21-27°C; heaters should be utilised to warm floors.

**CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES**



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