

DURABLE PROTECTION FOR CONCRETE OR METAL SURFACES
VERSATILE COATING FOR WALLS AND FLOORS
GOOD WATER AND CHEMICAL RESISTANCE
STANDARD COLOURS AVAILABLE

PRINCIPAL USES

Wall and floor coating in ablution blocks, food processing plants, hospitals and schools. Machine maintenance when normal paint fails.

RESISTANCE

Weather: Coating will chalk and discolour.

Temperature: Good resistance to temperatures up to 120°C (dry) and 60°C (wet).

Acids: Resists splash, fumes or spillage of inorganic acids up to 30% concentration, such as Hydrochloric, Sulphuric.

Alkalies: Resists splash and spillage of Ammonia up to 10% and splash, spillage and immersion in alkalies such as Caustic Soda and Caustic Potash.

Alcohols: Resists splash and spillage of alcohols such as Ethanol and Butanol.

Petroleum Products: Resists splash, spillage or intermittent immersion in Paraffin, Jet Fuel, Diesel Oil, Petrol, etc.

Solvents: Not damaged by spillage of aromatic and aliphatic solvents such as Xylene, Mineral Turps and Benzene.

Water and most Salt Solutions: Excellent resistance to spillage and immersion up to 60°C.

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

INSTRUCTIONS

Prior to application, the surface must be clean, dry and sound. If necessary, surface should be prepared in accordance with methods 1 or 2 of surface preparation specification. Prime surface with Stonprime 639. Stonkote 627 epoxy enamel is supplied in two attached containers which are separated by prising off the upper tin. Prior to mixing, the contents of the two containers should be stirred thoroughly. The contents of the small container should then be poured into the larger container and mixed for 4-5 minutes. At least 8-10 hours should elapse before applying a second coat. Clean equipment immediately after use with Pro-Struct 105 Brush Cleaner and rinse off in clean water.

CURING

At normal temperature conditions 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 7 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.

CAUTION

Under no circumstances should Pro-Struct 105 Brush Cleaner be mixed with any Epoxy Compound as this will inhibit the curing of the material. To avoid confusion, Pro-Struct 105 Brush Cleaner is coloured **blue**. Remove spots of Epoxy on hands with cotton waste dipped in water. Always wash well with soap and water after using this material.

Application details attached.

See also instructions "Handling of Epoxy Products"

TYPICAL PROPERTIES AT 25°C

Finish	Gloss
Colour	Refer to Colour Card
Consistency	Liquid
Volume Solids	40-45%
Theoretical Coverage Per Coat	6-8m ² /litre/coat Primer & minimum 2 coats
No. of Components	2
Mix Ratio By Volume	4:1
Pot Life	6-8 Hours
Apply Over	Concrete, steel or wood
Apply By	Brush, roller or spray
Curing Time	8 Hours – re-coat 24 Hours – service 7 Days – full cure
Thinner	Pro-Struct 104 (Not to exceed 10% by volume)
Shelf Life	12 Months
Max Service Temperature	120°C dry 60°C wet
Application Temperature Range	15°C to 35°C
VOC Content	500g/l

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APPLICATION SPECIFICATION FOR STONKOTE 627 EPOXY COATING SYSTEM

DESCRIPTION

This specification deals with the preparation, priming and coating of flat concrete floors and walls 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 oil, wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbounded 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 prior to coating should be below 5% and substrate tensile strength above 1.5 MPa. For recommendations or additional information regarding substrate preparation, please refer to StonCor Africa's 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 components in a kit are to be thoroughly mixed together for 5 minutes before use, note being taken of the limited pot life necessitating short application times per kit

PRIMING & PATCHING

Apply one or two coats of Stonprime 639 Primer at approximately 6m²/lt with a roller to seal the pores and strengthen the top concrete layer. Allow to cure for 8-12 hours before overcoating. If necessary, patch cracks and holes by filling with Pro-Struct 617 Epoxy Paste or, if badly pitted, skim floor surface with a trowel, using Stonkote 723. Allow to cure and sand smooth before overcoating.

COATING

Dependant on wear and chemical resistance properties required, apply 2 or 3 coats of Stonkote 627 Epoxy Enamel Coating at approximately 7m²/lt/coat using a short nap roller, allowing 8-12 hours curing between coats.

CURING

At normal temperature conditions, 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 five to seven days when full cure has been achieved.

NOTE:

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

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



StonCor Africa (Pty) Ltd

Co. Reg. No. 1996/001848/07

Tel: +27 (0)11 254 5500

Website: www.stoncor.co.za

E-mail: stoncorsa@stoncor.com