

SOLVENT-FREE PROTECTIVE COATING

LONG-TERM ABRASION CORROSION PROTECTION EASY VERTICAL AND HORIZONTAL APPLICATION DURABLE GLOSS FINISH PROTECTS AGAINST MOISTURE PENETRATION

PRINCIPAL USES

Stonkote HT4 is an excellent protective coating and enhances the chemical and abrasion resistance of Stonclad flooring and Stonchem lining systems. Stonkote HT4 also exhibits outstanding cleanability with an attractive roller texture which achieves a mild non-slip finish, improving durability.

RESISTANCE

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

Acids: Excellent on most inorganic and organic acids, but dependant on concentration.

Alkalies and Salts: Good to excellent to most compounds.

Solvents and Other Chemicals: Good to excellent.

Refer to Chemical Resistance Guide for specific material performance rating.

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

SPECIFICATION

Prepare surfaces and apply 2 coats of Stonkote HT4 over Stonhard flooring and Stonchem lining system or primer, in accordance with the manufacturer's detailed instructions.

PACKAGING AND COLOUR RANGE

Stonkote HT4 is packaged as a 2 litre unit, consisting of Stonkote 972 Base and Stonkote 972 Activator. 12 Standard colours are available as per the Stonhard flooring colour card.

STORAGE

Store all components of Stonkote HT4 between 16 to 30°C in a dry area. Avoid excessive heat and do not freeze.

REFERENCE SAMPLE

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

TYPICAL PROPERTIES AT 25°C

Finish	Gloss, with a roller texture
Colour	Refer to Colour Card
Consistency	Thixotropic Liquid
Volume Solids	100%
Theoretical Coverage Per Coat	4-6m ² /litre/coat 2 Coats required for ultimate performance
No. of Components	2
Mix Ratio By Volume	Mix complete kit
Pot Life	10-15 Minutes
Apply By	Rubber squeegee and back roll with medium nap roller
Apply Over	Sealer for Stonhard floor System. Primed concrete wall and floors.
Curing Time	4-5 Hours – re-coat 16-24 Hours – service 7 Days – full cure
Thinner	Nil
Shelf Life	18-24 Months
Max Service Temperature	93°C Continuous 121°C Intermittent
Application Conditions	16°C to 30°C
Relative Humidity	Below 80%
Dew Point	Substrate to be 2°C above dew point
Fire Resistance of Dry Film	Self-extinguishing
VOC Content	30 g/l

APPLICATION SPECIFICATION FOR STONKOTE HT4

SURFACE PREPARATION

PREPARING STONHARD FLOORING AND LINING SYSTEMS OR RECOATING

Before coating a Stonhard system, all trowel marks and surface imperfections must be removed to produce a smooth surface. Grind floors using a floor grinder with medium stones. Mechanically sand Saturant and engineered fabrics to roughen and remove protrusions. Vacuum using an industrial wet/dry vacuum to remove all dust particles. The Stonhard system is now ready to be coated with Stonkote HT4.

PREPARING CONCRETE SUBSTRATES

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 scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Carboclean 250 and 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, refer to substrate preparation data sheet or contact StonCor Africa Technical Service Department.

PRIMING

For use over Stonhard floor or Stonchem lining, no primer is necessary. For use over a concrete / plastered substrate. Stonprime 786 O.P.R. is recommended to ensure maximum product performance.

MIXING

Under no circumstances are the supplied kits to be split. The contents of the components in a kit are to be thoroughly mixed 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. Avoid high speed mixing that will entrain air into the mix.

APPLICATION

Stonkote HT4 is applied with a rubber squeegee and backrolled with a medium nap roller. The roller is used to remove squeegee lines and smooth out the surface, leaving a slightly textured, mild non-slip finish. A brush may be used where necessary. Stonkote HT4 may be applied at a variable thickness ranging from 160 to 250 microns dry film thickness. Each additional coat may be applied when the surface is tack-free, approximately 4 to 5 hours. Any questions regarding the application of Stonkote HT4 should be directed to Stonhard's Technical Service Department.

CURING

The surface of Stonkote HT4 will be tack-free in 4 to 5 hours at 25°C. The coated area may be put back in service in 16 to 24 hours dependant on the floor temperature. Ultimate physical and chemical characteristics will be achieved in 7 days.

RECOMMENDATIONS

- Apply only on a clean, sound and properly prepared substrate.
- Minimum ambient and surface temperatures at 16°C at the time of application and 2°C above dew point.
- Do not use water or steam in the vicinity of the application. **Moisture can seriously affect the working time and properties of the material.**
- Application and curing times are dependent upon ambient and surface conditions.

PRECAUTIONS

- Pro-Struct 105 Brush Cleaner and water are recommended for clean-up of the unreacted Stonkote HT4 material. The reacted material will require mechanical means of removal. Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- The use of safety glasses and impervious gloves is required during application.
- In case of contact, flush the area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Material Safety Data Sheets for Stonkote HT4 are available online at www.stoncor.co.za or upon request.
- A staff of technical service engineers is available to assist with product application or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.

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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