

PRODUCT DESCRIPTION

Stonkote GS4 is a two-component, 100% solids, general service, epoxy coating. It is formulated to increase abrasion and chemical resistance while improving cleanability. Stonkote GS4 is easily applied and hardens to an attractive gloss finish.

USES, APPLICATIONS

Stonkote GS4 is a general service coating designed for use whenever a high solids, corrosion resistant, gloss coating is required. It may be applied on various substrates to both vertical and horizontal surfaces. Some applications of Stonkote GS4 are:

- In conjunction with various Stonhard flooring systems
- Protection of concrete surfaces exposed to abrasive or corrosive environments
- For substrates requiring a protective coating that is easily cleaned and maintained

PRODUCT ADVANTAGES

- 100% solids
- Long-term abrasion and corrosion resistance
- Excellent bond strength assures good adhesion
- Protects against moisture penetration
- Bonds to many different substrates
- Durable, gloss finish permits easy cleaning and maintenance
- Factory proportioned packaging ensures consistent, high quality, simplified mixing

PACKAGING

Stonkote GS4 is packaged in units for easy handling. Each unit consists of one carton containing:

- 4 foil bags of Part A (curing agent)
- 4 poly bags of Part B (resin)

COVERAGE

Approximately 400 sq. ft./37.16 sq. m per unit at 4 mil thickness over a porous substrate (8 mil theoretical/non-porous).

STORAGE CONDITIONS

Store all components of Stonkote GS4 between 60 to 85°F/16 to 29°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

COLOUR

Stonkote GS4 is available in Clear and 14 standard colours. Custom colours are available upon request.

PHYSICAL CHARACTERISTICS

Percent Solids	100%
Pot Life	35 minutes (@ 77°F/25°C)
Suggested Number of Coats	One
Coverage	400 sq. ft./37.16 sq. m per unit (@ 8.0 mil, DFT)
Cure Rate	8 hours (@ 77°F/25°C) for tack-free surface 24 hours minimum for normal operations
Temperature Limitations	140°F/60°C continuous exposure 200°F/93°C intermittent exposure
Fire Resistance of Dry Film	Self-Extinguishing

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual coating were used as test specimens.

SUBSTRATE PREPARATION

Preparing Stonhard Flooring Systems

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 with Stonkote GS4.

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 (Stonkleen DG9) and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

PRIMING

For use over a Stonhard floor; no primer is necessary. For use over a concrete substrate, Stoncrest GS3 or HT Primer are recommended to ensure maximum product performance.

MIXING

Stonkote GS4 is supplied in factory proportioned quantities. To achieve thorough and proper mixing, the Stonkote GS4 must be mechanically mixed using a heavy-duty, slow-speed drill (400 to 600 rpm) with a Jiffy Mixer. Empty the contents of Part B into a mixing container and pre-mix to assure the suspension of solids. Add Part A and continue to mix to a uniform consistency for 1 to 2 minutes. Avoid high speed mixing that will entrain air into the mix. Thorough mixing of the two components is required.

POT LIFE

After mixing, Stonkote GS4 has a working time of approximately 35 minutes at 77°F/25°C. The working time may vary depending on ambient and surface conditions.

APPLYING

Stonkote GS4 can be applied at ambient temperatures of 60 to 85°F/16 to 29°C and humidity below 80%. The GS4 must be applied immediately after mixing the two components. Stonkote GS4 is applied with a rubber squeegee and medium nap roller. The roller is used to remove squeegee lines and smooth out the surface. A brush may be used where necessary. Stonkote GS4 may be applied at variable thicknesses ranging from 4 to 6 mil minimum dry film thickness. Each additional coat may be applied when the surface is tack-free, which is about 8 hours. Any questions regarding the application of Stonkote GS4 should be directed to Stonhard's Technical Service Department.

CURING

The surface of Stonkote GS4 will be tack-free in 8 hours at 77°F/25°C. The coated area may be put back in service in 24 hours. Ultimate physical characteristics will be achieved in 7 days.

RECOMMENDATIONS

- Apply only on a clean, sound and properly prepared substrate.
- Minimum ambient and surface temperatures are 60°F/16°C at the time of application.
- 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

- Toluene and Xylene solvents are recommended for clean up of the unreacted Stonkote GS4 material. Use these materials only in strict accordance with manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations. The reacted material will require mechanical means of removal.

- The use of a NIOSH/MSHA approved respirator, safety goggles and impervious gloves are recommended.
- In case of contact, flush the area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- When applied according to Stonhard's tech line #5, the applied thickness of Stonkote GS4 with textures is as follows:

TX3 & TX4	20 - 25 mils
TX5	38 - 42 mils
- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Material Safety Data Sheets for Stonkote GS4 are available upon request.
- A staff of technical service engineers is available to assist with product application or to answer questions related to Stonhard's products.
- Requests for technical literature or service can be made through local sales representatives and offices, or corporate offices located worldwide.

CHEMICAL RESISTANCE GUIDE

The purpose of this guide is to aid in determining the potential value of Stonkote GS4 when exposed to the damaging effects of corrosive chemical environments.

RATING CODE

E - Excellent
G - Good
NR - Not Recommended
OS - Suitable for use where "occasional spillages" occur; when flushing with water immediately follows.

ACIDS

RATING	RATING
Acetic - 5%G	Hypochlorous - 5%E
Acetic - 20%OS	Lactic - up to 20%OS
Acetic - GlacialNR	Maleic - 30%G
Benzoic - Sat.E	Maleic - 40%OS
Boric - Sat.E	Nitric - 10%G
Butyric - 10%OS	Nitric - 30%OS
Chromic - 10%G	OleicG
Chromic - 20%OS	Oxalic - Sat.E
Citric - 50%E	Perchloric - 35%G
CresylicOS	Phosphoric - up to 50%OS
DiglycolicG	Picric - Sat.E
FattyG	PhthalicG
FluoboricG	Succinic - Sat.E
Formic - up to 10%OS	Sulfuric - 20%E
HeptanoicOS	Sulfuric - 50%G
Hydrochloric - 15%G	Sulfuric - 70%OS
Hydrochloric - 37%OS	Tannic - Sat.G
Hydrofluoric - 10%OS	Tartaric - Sat.E

ALKALIES AND SALTS

Stonkote GS4 is rated Good to Excellent when exposed to most alkalies and salts.

SOLVENTS AND OTHER CHEMICALS

RATING	RATING
AcetoneNR	Linseed OilG
Alcohol (Methyl)OS	Methyl Ethyl Ketone.....NR
Alcohol (Ethyl, Propyl, Isopropyl, Butyl).....G	Methylene ChlorideNR
Benzene.....OS	Milk.....E
Carbon Tetrachloride.....OS	Mineral Spirits.....G
Corn Oil.....E	NaphthaG
Cyclohexane.....G	Oils - Cutting.....G
Denatured Alcohol.....G	Oils - MineralE
Ethylene GlycolG	Oils - Vegetable.....G
Ether.....OS	PerchloroethyleneG
Formaldehyde.....G	SkydrolG
GasolineE	Sucrose - Sat. (Sugar)E
Glycerine.....E	Toluene.....OS
Hydrogen Peroxide - 10%.....G	Trichloroethylene.....NR
JP5 Jet Fuel.....G	Urea.....G
Juices - FruitE	Vinegar (Household)G
Juices - Vegetable.....E	Water.....E
Lard.....G	Xylene.....OS

Note: This data is based on laboratory tests performed under carefully controlled conditions. (All solutions are at ambient temperatures.) No warranty can be expressed or implied regarding the accuracy of this information as it will apply to actual plant operation or job site use. Plant operations and job site uses vary widely, and the individual results obtained are affected by the specific conditions encountered, which are beyond our control.

IMPORTANT:

Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

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