STONHARD

STONKOTE® GS4

PRODUCT DATA

PRODUCT DESCRIPTION
Stonkote GS4 is a two-component, high 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 include:
- 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

PHYSICAL CHARACTERISTICS

Pot Life ..... 35 minutes (@ 77˚F/25˚C)
Suggested Number of Coats ..... One
Cure Rate .....8 hours (@77˚F/25˚C).....
..... for tack-free surface 24 hours minimum for normal operations
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.

PRODUCT ADVANTAGES
- High 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 (unsealed concrete, uncoated mortar systems, etc.).
Approximately 750 sq. ft./69.68 sq. m per unit at 4 mil thickness over a sealed substrate (primed concrete, coated mortar system, etc.)

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.

COLOR
Stonkote GS4 is available in Clear and 11 standard colors. Custom colors are available upon request.

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 TD9) 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, Stonchem Epoxy Primer 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 2 minutes. Avoid high speed mixing that will entrain air into the mix. Thorough mixing of the two components is required.
After mixing, an induction time of 5 minutes is recommended. The induction time is a waiting period where the coating is allowed to completely react prior to being applied to the floor. Avoid extended induction times as this will significantly shorten the working time.

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 should be applied at ambient temperatures of 60 to 85˚F/16 to 29˚C and humidity below 80%. 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.
- 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.
- Avoid contact with the liquids as they may cause skin and/or eye irritation. In the case of eye contact, immediately flush the area with copious amounts of clean water for at least 15 minutes and seek medical attention. Workmen should cover hands with impervious gloves & wear safety glasses. Wash hands thoroughly with soap and water after use and before eating, smoking, etc. A N95 NIOSH approved dust mask must be worn during substrate preparation. Use only with adequate ventilation

NOTES
- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Safety Data Sheets for Stonkote GS4 are available online at stonhard.com under Tech Info or 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.

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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USA HQ	(800) 257 7953	Mexico	+(52) 55 9140 4500	Belgium	+(32) 67 49 37 10	South Africa	+(27) 11 254 5500	Australia	+(61) 3 9587 7433
Canada	(800) 263 3112	Argentina	+(54) 11 5032 3113	Dubai, UAE	+(971) 4 3470460	India	+(91) 22 28500321		