

STONSEAL® CF7

PRODUCT DESCRIPTION

Stonseal CF7 is a two-component, high performance, water based, aliphatic polyurethane coating that incorporates Stonplus AM9 antimicrobial technology. (For more information on Stonplus AM9 see product data sheet or contact a Stonhard representative.) Stonseal CF7 combines superior chemical and abrasion resistance with excellent adhesion and weatherability. Stonseal CF7 has a clear, flat appearance.

USES, APPLICATIONS

Stonseal CF7 improves cleanability, increases stain, abrasion and UV resistance of Stonhard floor systems. It can be applied to vertical and horizontal surfaces. A few typical uses for Stonseal CF7 are:

- Where a UV resistant top coat is needed
- Where increased abrasion resistance is needed
- Where increased stain resistance is needed
- Where a flat finish is required
- Hospital operating rooms
- Pharmaceutical cleanrooms

PRODUCT ADVANTAGES

- Maximum ultraviolet light resistance
- Easy to clean surface for simple maintenance
- May be brush or roller applied
- Low VOC (<100g/l)
- Minimal odor

PACKAGING

Stonseal CF7 is packaged in units for easy handling. Each unit consists of:

- 1 foil bag of Isocyanate
- (1) 1 gallon pail of Polyol

COVERAGE

Approximately 400 sq. ft./42 sq. m per unit per coat at 2-3 mil dry film thickness (DFT) over a smooth substrate.

STORAGE CONDITIONS

Store both components of Stonseal CF7 between 60 to 85°F/16°C to 30°C in a dry area. Avoid excessive heat. Do not freeze. The shelf life is 180 days in the original, unopened container.

PHYSICAL CHARACTERISTICS

VOC Content47 g/l
(ASTM 2369, Method C)	
Pot Life @ 77°F/25°C 30 minutes
Cure Rate @ 77°F/25°C12 hours
	for a tack-free surface
	24 hours
	for normal operations
Abrasion Resistance0.04 g
(ASTM D-4060, CS-17)	

Note: The above physical properties were measured in accordance with the referenced standards.

COLOR

Stonseal CF7 is available in a clear flat only.

SURFACE PREPARATION

Preparing Stonhard Floor Systems

Before coating a Stonhard floor, the surface must be clean and dry. If applying Stonseal CF7 over an epoxy coating, it is important to allow the epoxy to cure for at least 12 hours at 77°F/25°C. The surface must then be clean and free of dust and bond inhibiting particles. The Stonhard floor is now ready to be coated.

TOOLS NEEDED TO MIX AND INSTALL

The special tools and equipment needed to mix and install Stonseal CF7 properly are simple and readily available from Stonhard. They include: new/clean 5 gallon buckets, heavy duty, slow speed drill (600 to 800 rpm), mixing blades, 18 in. high quality 3/8 in. nap rollers, 18 in. roller cages, 18 in. paint tray, 9 in. high quality 3/8 in. nap rollers, 9 in. roller cages, high quality paint brush and/or Whizz/mini roller.

PRIMING

No primer is necessary for use over sealed Stonhard floor systems. It is not recommended for use over unsealed surfaces.

MIXING

Stonseal CF7 is supplied in pre-measured quantities. Mix the entire unit. Mixing must be achieved by mechanical means. Mechanical mixing should be done using a heavy-duty, slow-speed drill (400 to 600 rpm) with a Jiffy Mixer. **Open the resin pail and thoroughly pre-mix the polyol resin in its original container to assure the suspension of solids.** Pour the contents of polyol into an appropriate mixing container; add isocyanate and mix to a uniform consistency for a period of 1 to 2 minutes. Avoid high-speed mixing that will entrain air bubbles. Thorough mixing of the two components is required.

POT LIFE

After mixing, Stonseal CF7 has a working time of approximately 30 minutes at 77°F/25°C.

APPLYING

Stonseal CF7 should be applied at ambient and surface temperatures of 60 to 85°F/16 to 30°C and humidity below 80%. This coating may be applied immediately after mixing the two components. Once mixed, the CF7 should be poured into the 18 in. roller trays. The material should then be dipped and rolled using the 18 in. rollers on the main field of the floor. It is necessary to use 18 in. rollers because they provide an even pressure across the roller minimizing roller lines in the floor. The 9 in. rollers and brushes/Wiz rollers can be used for edges, coves and cutting in around equipment/partitions. The applicators should ensure they are applying the material evenly across the floor and are checking the thickness of the material regularly with a wet film gauge. The material thickness should be 4 to 5 mils. It is critical not to go thinner than 3 mils.

Immediately after the applicators begin applying material to the floor, another applicator should begin to finish roll with an 18 in. roller. The roller should stay saturated at all times and if necessary should be re-wetted out in the paint tray. The finish roller should roll perpendicular to the direction of the other rollers. Any roller lines, thick/thin spots bare spots must be addressed now. **It is critical that the initial applicators and the finish rollers stay within close proximity of each other. The finish roller should be within 8 feet of the initial applicators to prevent the material from becoming tacky prior to the finish roll.** This means that a crew member cannot go too far ahead while coating the coves or edges but must stay even with the rest of the material. Also, any drips from rollers or buckets/paint trays must be cleaned up immediately to prevent spots in the finished floor.

The install should continue in an even and controlled manner. The crew must be aware of the ins and outs of the CF7 procedure to ensure a successful installation. It may be necessary to discuss the manner in which irregular rooms will be coated to ensure that the wet edge is not lost during the application.

Any questions regarding the application of Stonseal CF7 should be directed to Stonhard's Technical Service Department.

Note: Stonseal CF7 can also be applied via the squeegee-backroll method. It is important to follow the tips listed above. For further information on this method, contact Stonhard's Technical Service Department.

CURING

The surface of Stonseal CF7 at 77°F/25°C may be recoated if necessary in 12 hours or open to foot traffic. The coated area may be put back to normal operations in 24 hours. Ultimate physical and chemical characteristics will be achieved in 7 days.

RECOMMENDATIONS

- Soap and water is recommended for clean up of the unreacted Stonseal CF7 material. The reacted material will require mechanical means of removal. Use these materials only in strict accordance with manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- Apply only on a clean, sound, properly prepared substrate.
- Application and curing times are dependent upon ambient and surface conditions.
- Minimum ambient and surface temperatures are 60°F/16°C at the time of application.

PRECAUTIONS

- 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

- Procedures for maintenance of the flooring system during operations are described in the Stonkleen Floor Cleaning Procedures Brochure.
- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Safety Data Sheets for Stonseal CF7 are available on line at www.stonhard.com under Products 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 offices, or corporate offices located worldwide.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high gloss coatings are subject to a reduction in gloss, while matte finish coatings can increase in gloss level under normal operating conditions.
- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep cleaned periodically to ensure no contaminant buildup occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction-enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.

CHEMICAL RESISTANCE GUIDE

The purpose of this guide is to aid in determining the potential value of Stonseal CF7 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%	E	Hypochlorous - 5%	E
Acetic - 20%	G	Lactic - up to 20%	OS
Acetic - Glacial	NR	Maleic - 30%	OS
Benzoic - Sat. 3%	E	Maleic - 40%	OS
Boric - Sat. 30%	E	Nitric - 10%	G
Butyric - 10%	OS	Nitric - 30%	OS
Chromic - 10%	G	Oleic	G
Chromic - 20%	OS	Oxalic - Sat.	E
Citric - 50%	E	Perchloric - 35%	OS
Cresylic	OS	Phosphoric - up to 50%	G
Diglycolic	G	Picric - Sat.	E
Fatty	G	Phthalic	G
Fluoboric	G	Succinic - Sat.	E
Formic - up to 10%	OS	Sulfuric - 20%	E
Heptanoic	OS	Sulfuric - 50%	G
Hydrochloric - 15%	G	Sulfuric - 70%	OS
Hydrochloric - 37%	OS	Tannic - Sat.	G
Hydrofluoric 5%	G	Tartartic - Sat.	E
Hydrofluoric - 10%	OS		

ALKALIES AND SALTS

Stonseal CF7 is rated *Good* to *Excellent* when exposed to most alkalies and salts.

SOLVENTS AND OTHER CHEMICALS

RATING	RATING		
Acetone	OS	Milk	E
Alcohol (Methyl)	G	Mineral Spirits	G
Alcohol (Ethyl, Propyl, Isopropyl, Butyl)	G	Naphtha	OS
Corn Oil	E	Oils - Cutting	G
Cyclohexane	G	Oils - Mineral	E
Denatured Alcohol	G	Oils - Vegetable	G
Ethylene Glycol	G	Perchloroethylene	OS
Gasoline	E	Skydrol	G
Glycerine	E	Sucrose - Sat. (Sugar)	E
Hydrogen Peroxide - 10%	G	Toluene	OS
JP5 Jet Fuel	G	Trichloroethylene	NR
Juices - Fruit	E	Urea	G
Juices - Vegetable	E	Vinegar (Household)	G
Lard	G	Water	E
Linseed Oil	G	Xylene	OS
Methyl Ethyl Ketone	NR		

Note: This data is based on laboratory tests performed under carefully controlled conditions. (All solutions are at ambient temperatures.) No warranty can be expressed nor 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.

Rev. 4/16
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