

PRODUCT DESCRIPTION

Stonseal CF7 is a two-component, high performance, water based, aliphatic polyurethane coating. 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 cleanliness, 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 Can of Isocyanate
- 1 Pail of Polyol

COVERAGE

Approximately 50 m² per unit per coat at 51-76 µm dry film thickness (DFT) over a smooth substrate.

STORAGE CONDITIONS

Store both components of Stonseal CF7 between 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.

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 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, paint tray, high quality microfiber rollers, high quality paint brush and/or Whizz/mini roller.

PHYSICAL CHARACTERISTICS

VOC Content (ASTM 2369, Method C)	47 g/l
Pot Life @ 25°C	60 minutes
Cure Rate @ 25°C	6 hours for a tack-free surface 24 hours for normal operations
Abrasion Resistance (ASTM D-4060, CS-17)	0.05 gr

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

PRIMING

No primer is necessary for use over sealed Stonhard floor systems. It is not recommended for use over unsealed surfaces or to be used directly over concrete.

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 highspeed mixing that will entrain air bubbles. Thorough mixing of the two components is required.

Note: Over time the part polyol may thicken and when it's pre-mixed you may find films of material in the mix. To prevent this from happening you can sieve the material using a fine mesh or pantyhose before pigments are added and it's applied to the floor.

POT LIFE

After mixing, Stonseal CF7 has a working time of approximately 60 minutes at 25°C.

APPLYING

Stonseal CF7 should be applied at ambient and surface temperatures of 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 roller trays. The material should then be dipped and rolled using the high quality microfiber rollers on the main field of the floor. It is necessary to use 45 rollers because they provide an even pressure across the roller minimizing roller lines in the floor. The small 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 102 to 127 µm. It is critical not to go thinner than 76 µm.

Immediately after the applicators begin applying material to the floor, another applicator should begin to finish roll with an 45 cm 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 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 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

- For environments not referenced in the Chemical Resistance guide, consult Stonhard's Technical Service Department for recommendations.
- Material 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

IMPORTANT:

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