
CFFS ULTRA-HYDRO STOP PRIMER

Product Description

CFFS Ultra-Hydro Stop Primer is a versatile moisture vapor barrier ideal for use on damp and green concrete floors. It is the perfect solution on moisture laden concrete surfaces for the installation of most resinous coatings and protects moisture sensitive flooring. Ultra-Hydro Stop Primer is two component, 100% solids epoxy primer that is easy to install, self-leveling and fast setting. It provides excellent adhesion and is capable of holding back up to 25 lbs. of moisture vapor transmission, (MVT). Available in Clear, Dunes Tan and Light Grey. The pre-tinted colors can be used as broadcast coats to save time and money.

Product Features

- ❖ Tenacious adhesion to damp concrete, up to 100% RH. Allows for installation of most resinous coatings.
- ❖ Protects moisture/pH sensitive floor commercial flooring.
- ❖ Odor reducer/barrier.
- ❖ Holds back up to 25 lbs./1000 sf/ 24 hours of moisture vapor transmission
- ❖ Use on "Green Concrete" as early as 7 days after placement.
- ❖ Resistant to high alkalinity floors up to 14 pH.
- ❖ Virtually no odor, easy application and fast setting. Apply with minimal disturbance to surrounding activities.
- ❖ Excellent self-leveling properties increase hiding power over damaged substrates.
- ❖ Easy to mix 3:2 ratio, packaged in convenient kits.
- ❖ Available in Clear, Dunes Tan and Light Grey.

Primary Applications

- ❖ High build primer
- ❖ Self-leveling coating
- ❖ Moisture stopping primer

Suitable For Use Under

- ❖ Epoxies
- ❖ Urethanes
- ❖ Polyurea
- ❖ Ceramic tile
- ❖ Hardwood flooring
- ❖ VCT tile
- ❖ Linoleum
- ❖ Cementitious overlays
- ❖ Carpet

Product in CLEAR, Dunes Tan and Light Grey.

Packaging Available in 5 gallon kits (3A, 2B)

Typical Processing Properties

Pot Life	Empty container immediately after mixing.
Working Time	20-25 minutes
Mixing Ratio	3A:2B Ratio
Dry time	Tack Free-4-6 hours
(72°F-54% RH)	Hard dry-8-12 hour
Re-Coat	Tack Free-24 Hours, scuff sand after 24hours
VOC Content	Compliant in all 50 states and Canada
Permeability of Clear (gr./ft ² /hr. in Hg ⁻¹)	0.09

Recommended Coverage

Over CSP-3 to 4 Prepped Concrete 80-100 sf/gal @ 16 mils DFT

Adhesion Results (ASTM D-4541 Elcometer)

Concrete Concrete Failure >450psi

Temperature

60°F - 100°F (10°C - 38°C)

Colder temperature applications should not be attempted with this material. It is possible to condition the environment to allow for application via heaters and enclosures. The concrete surface must be at least 5°F above the Dew Point temperature. Coating should be applied when temperature is steady and/or falling. **DO NOT APPLY UNDER 50°F OR WHEN TEMPERATURE IS RISING. DO NOT APPLY IN DIRECT SUNLIGHT.**

Shelf Life and Storage

Twelve months in factory delivered unopened drums and buckets. Keep away from extreme heat, cold and moisture. Maintain at a proper storage temperature of 60-90° F. Keep out of direct sunlight and away from fire hazards.

Safety and Handling

Always wear protective rubber gloves and eye protection when mixing or handling this material and provide proper ventilation. For more information, see Material Safety Data Sheets.

Surface Preparation

Concrete

Old concrete – Mechanical grinding, sandblasting, shot blasting, or water blasting is highly recommended to remove surface contaminants. **Acid etching is not an acceptable method of preparation.** Any oils or fats must be completely removed prior to product application. Sealers, Silicates, and failed coatings must be removed via mechanical abrasion. Do not apply to wet substrates. Chloride, moisture and pH levels should be checked prior to application. Concrete surface should represent a minimum ICRI CSP-3 to 4 profile before coating can commence.

New Concrete – The concrete should be allowed to cure for a minimum of 7 days when using CFFS Ultra-Hydro Stop Primer™. Mechanical grinding, shot blasting or sand blasting is required to remove the surface laitance that appeared during the curing process. Sealers, Silicates, and failed coatings must be removed via mechanical abrasion. Chloride, moisture and pH levels should be checked prior to application. Concrete surface should represent a minimum ICRI CSP-3 to 4 profile before coating can commence.

Substrate Repairs

All spalls and cracks should be chased out and repaired to ICRI standards using CFFS-Fortification Formula. For floors with exceptionally high moisture levels, cracks should be repaired with a mix of CFFS Ultra-Hydro Stop Primer and Cabosil applied using trowels or putty knives prior to coating. Expansion joints must be honored. CFFS Ultra-Hydro Stop Primer should be applied down into horizontal saw-cut control joints and allowed to cure a minimum of 24 hours before they can be filled with a backer rod and CFFS Polyflex-93 or compatible Polyurethane sealant.

Primer Requirements

Please consult your product supplier for job specific recommendations. CFFS Ultra-Hydro Stop Primer is designed to be applied direct to concrete and under no circumstances should a separate primer be applied prior to the application of CFFS Ultra-Hydro Stop Primer.

Installation Recommendations

CFFS Ultra-Hydro Stop Primer adheres well to several sound substrates and coatings including but not limited to; concrete, fiberglass, and wood. All surfaces should be free of loose particles, rust, voids, and spalls. It is recommended that this product be squeegee and roll applied in a multi-directional (north, south, east and west) motion to help ensure proper coating thickness.

Product Application

Mixing

Material and environment should be pre-conditioned to a minimum of 50°F (10°C) prior to use. Mix both the A and B side components using separate paddle mixers and a drill for a minimum of 2 minutes to thoroughly mix the contents. This should be done prior to every use before combining the two components. This material is packaged in kits which allow for easy mixing by pouring the entire contents of the **Part B** container (2 gallons) into the short-filled **Part A** container (3 gallons) while spinning to create a vortex. If it must be mixed in smaller quantities, follow the mix ratio of 3A:2B to combine the two components in a calibrated mixing container. Blend the two components together with a paddle style mixer and drill for at least 1 minute. Recommended practice is to transfer the mixed material to another clean container and blend for an additional 1 minute prior to use. Never mix more material than can be placed and finished in 20-25 minutes.

Product Application

SQUEEGEE: Use a ¼ inch notched squeegee to spread the material out and achieve the 80-100 square feet per gallon spread rate.

ROLL: Roll out the material smooth using a ¾ inch lint free roller with a phenolic core. If needed, a spiked roller can be used to release any entrapped air in the coating. CFFS Ultra-Hydro Stop Primer should be allowed to flow down into saw cuts, but not allowed to fill the saw cut. **BRUSH:** Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

DO NOT APPLY THE MATERIAL THINNER THAN SPECIFIED OR LOSS OF PERFORMANCE WILL OCCUR.

Thinner

Not Required.

Application Notes: Occasionally, Blushing may occur after application. This occurs when moisture interacts with the product's curing agent. It appears as a sticky, oily, or waxy residue on the surface layer of the cured epoxy and needs to be removed. Use a non-residue degreaser like Krud Kutter® following label instructions to remove the blushing. Once removed, scuff sand the surface to ensure adhesion of subsequent coatings.

Clean Up

Use Acetone on tools and equipment before product cures.

LEED Credits

Most CFFS products contribute to LEED Credits. See our LEED Credit Bulletin for more information.

Compatible Coatings

Primers

CFFS Ultra-Hydro Stop (Epoxy MVT Primer)

*CFFS Ultra-Hydro Stop Primer requires scuff sanding via 80-120 grit sandpaper to provide a profile for additional coatings after it has fully cured 24 hours.

Intermediates

CFFS Polyurea-350 (Polyurea)
 CFFS Polyurea-1 HD (Single Component Aliphatic Polyurea)
 CFFS Polycuramine (Epoxy Hybrid)
 CFFS SLE-100 (100% Solids Epoxy)

Clear Finish Topcoats

CFFS RG-80 (Aliphatic Polyaspartic Polyurea)
 CFFS ET-80 (Aliphatic Polyaspartic Polyurea)
 CFFS PG-100 (Aliphatic Polyaspartic Polyurea)
 CFFS Polyurea-1 HD (Single Component Aliphatic Polyurea)
 CFFS Polyurea -2 Ultra (Single Component Aliphatic Polyurea)

Accelerator

No additional catalyst is required or available to reduce cure time.

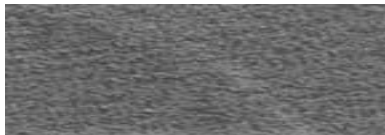
Coverage Calculations

Coating Thickness (@100% Solids)	Sq.Ft/gal
16 mils	100
20 mils	80

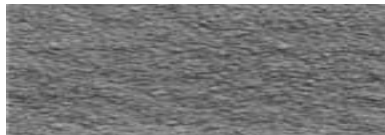
Certifications

VOC Compliant in all 50 states, Canada, Australia and Various Countries in Europe (National Standards – IMC)

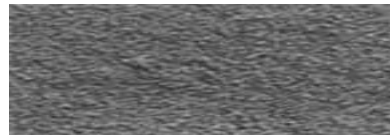
International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) Scale



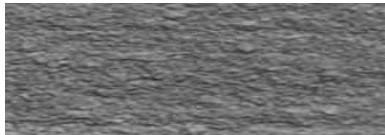
CSP 1 (acid etched)



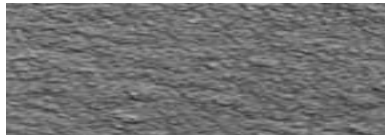
CSP 2 (grinding)



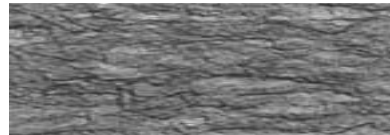
CSP 3 (light shotblast)



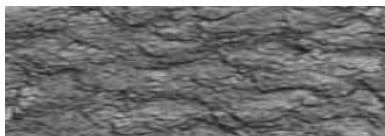
CSP 4 (medium shotblast)



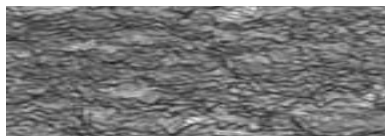
CSP 5 (medium-heavy shotblast)



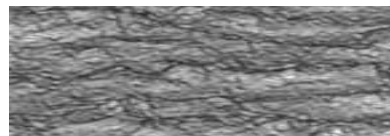
CSP 6 (heavy shotblast)



CSP 7 (heavy shotblast)



CSP 8 (extreme shotblast)



CSP 9 (extreme shotblast)

Safety Precautions

DANGER!! Vapor and Atomized liquids are harmful. Overexposure may cause lung damage, allergic skin reactions, or respiratory reactions. Effects may be permanent, may affect the brain or nervous system causing dizziness, headaches, or nausea. Use only in well ventilated areas, wear approved respirators when necessary. Keep out of reach of children. See MSDS for First Aid recommendations.

Shipping Information

Flash Point:	>93°C (>200°F)
Weight/Gallon:	9.5 ±1.0 lbs.
DOT HAZARD CLASS	8
DOT PACKAGING GROUP	II
DOT LABEL	Corrosive (Part B)
DOT SHIPPING NAME	Amine, Liquid, Corrosive
UN / NA NUMBER	2735 (Part B)

Warranty

The technical data and any other printed information furnished by CFFS are true and accurate to the best of our knowledge. CFFS Ultra-Hydro Stop Primer™ conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not.

*CFFS Ultra Hydro Stop warranty is available upon request.