

ConFlex®

7% Siloxane Water Repellent

CF31T0007 Clear


**SHERWIN
WILLIAMS®**

CHARACTERISTICS

ConFlex 7% Siloxane Water Repellent is a clear siloxane water repellent designed to weatherproof old and new concrete and masonry against nature's destructive forces, providing a long lasting, breathable barrier which exhibits excellent resistance to water, airborne dust and dirt, salt, acid rain, efflorescence, alkali, freeze/thaw damage and spalling.

ConFlex 7% Siloxane Water Repellent protects against damage resulting from moisture intrusion.

ConFlex 7% Siloxane Water Repellent does not mar glass or metal flashing.

Color: Clear
Coverage: Approximate total coverage rates:
 sq. ft./gallon

Smooth Precast Concrete	125-175
Porous Concrete, Brick (clay), Bridge Decks	100-150
Decorative Block, Stucco	50-150
Steel Troweled Concrete	150-200
Split Face Block, Fluted	25-75
Concrete Block	75-125

Coverage will vary depending on the porosity and texture of the substrate.

If a second coat is required to uniform the application, this product MUST be applied wet-on-wet.

Drying Schedule @ 50% RH: temperature and humidity dependent
Touch 3 hours

Clear CF31T0007

V.O.C. (less exempt solvents):

less than 50 grams per litre; .42 lbs. per gallon
As per 40 CFR 59.406

Active Content:	7 ± 2%
Weight per Gallon:	8.26
Flash Point:	N/A
Vehicle Type:	Siloxane
Shelf Life:	12 months, unopened

Sherwin-Williams Technical Data for the Siloxane Water Repellent reports Active Content which is based off ASTM D5095 - Standard Test Method for Determination of the Nonvolatile Content in Silanes, Siloxanes, and Silane-Siloxane Blends Used in Masonry Water Repellents Treatments. A catalyst is used to react the treatment and some active content is consumed as the treatment polymerizes yielding a lower solids value. The total solids for this product by ASTM D5095 is 5% ± 2%.

COMPLIANCE

As of 08/29/2019, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	No
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
MIR-Product Lens Certified	No
MPI	Yes

APPLICATION

Temperature: Air and surface temperature must be between 50° and 90°F.

A single flood coat is recommended, if a second coat is needed, it **MUST** be applied as a wet-on-wet application or there may be intercoat adhesion problems.

Surface texture determines actual coverage.

Stir thoroughly before and during application.

Protect against rain for 4 to 5 hours to allow the water repellent to become effective.

Allow 7 days for the product to fully react before evaluating performance.

Reducer: No reduction necessary
 If surface is damp or wet from weather or cleaning, allow the surface to dry thoroughly before applying any coating.

Apply by low pressure airless sprayer or pump-up sprayer. The best results are achieved when working with low spraying pressures so the impregnating solution is applied in the form of droplets rather than a mist. Use the flood method.

APPLICATION TIPS

Vertical surfaces - saturate or "flood", allowing the material to run down 8 to 10 inches. Work from the bottom up and in sections small enough to allow the run down to remain "wet" as application continues.

Horizontal surfaces - coat with enough material to allow it to stand for a few seconds before penetrating.

Interruption of Work: Upon drying, treated surfaces appear identical to untreated surfaces. It is possible areas could remain untreated if work is interrupted. It is advisable to stop application on a corner joint or any other obvious marker so the applicator can begin where application had previously ceased.

RECOMMENDED SYSTEMS

Most Concrete and Masonry surfaces including:

- Stadium Supports
- Bridges and Bridge Structures
- Parking Garages, Traffic Sound Barriers
- Driveways, Sidewalks
- Concrete & brick patios

Use on:

- Tilt-up and poured-in-place walls
- Concrete, Split faced & Fluted block
- Brick (clay or cement)
- Stucco, Mortar

Do not use on asphalt surfaces.

Not for immersion service.

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Concrete, Stucco :

If needed, pressure clean with a minimum of 2100 psi to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, coatings, chalk, form release agents, moisture curing membranes, mildew, etc. Allow the surface to dry thoroughly. Concrete and mortar must be cured at least 7 days at 75°F. On tilt-up and poured-in-place concrete, commercial detergents and sandblasting may be necessary to remove sealers, release compounds, and to provide an anchor pattern.

For very smooth surfaces (troweled surfaces with no porosity) use Concrete Etching Solution at full strength to open up the surface to allow this to penetrate into the surface. For smooth-troweled concrete with some porosity, 1 part Concrete Etching Solution to two parts water should be used.

Only etch horizontal concrete, follow label directions carefully, including neutralization.

Prepared concrete should have a pH between 7 and 10.

Because water will collect in low spots and may deposit etching and cleaning residue, it is recommended that, if needed, the surface be vacuumed to remove any remaining water.

Repair any loose or disintegrated mortar and allow it to cure before application. Repaired areas may be noticeable through this clear coating.

•Use caution when preparing the substrate to create a uniform surface.

•Cracks, crevices, and through-wall openings must be patched using an elastomeric sealant or patch.

•Fill voids and openings around window and doors using an elastomeric sealant or patch.

•Stripe coat all inside and outside corners and edges with ConFlex Siloxane Water Repellent

Testing:

Due to the wide variety of substrates, preparation methods, application methods and environments, the customer should test the product in an inconspicuous spot for adhesion and compatibility prior to full scale application.

To determine if the surface is sealed with another coating or a curing compound, sprinkle water onto the surface. If the water is absorbed and the surface becomes darker, the surface is not sealed. If the water beads up, there is a coating or curing compound that must be removed to allow the water repellent to penetrate. It is crucial to ensure proper penetration of the coating.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Remove all existing paint.

SURFACE PREPARATION**Mildew:**

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

PERFORMANCE TESTING**CF31T0007**

ASTM E 514, Water Permeance of Masonry.

Reduction in Leakage Rate

62% ConFlex Siloxane (average)

Water Repellency:

76% Rilem Tube (72 hrs)

81% Immersion (3 day)

Alkali Resistance Tests:

Each was allowed to react for 24 hours under a watch glass, washed with water, allowed to recover for 30 minutes then observed.

Alkali: 5% NaOH and 10% NaOH

Result: Pass

CAUTIONS

ConFlex 7% Siloxane Water Repellent is not recommended for topcoating over film-forming paints, stains, or sealers.

ConFlex 7% Siloxane Water Repellent will not prevent water penetration through unsound or cracked surfaces or structures with defective structural waterproofing, caulking or flashing.

Not for use on marble, limestone, or other forms of calcium carbonate. These surfaces can be very smooth, this product may not penetrate into these surfaces and provide the water repellency needed.

ConFlex 7% Siloxane Water Repellent can be slippery for several hours after application. When applied to traffic bearing areas, do not open the treated areas until the product has fully dried.

Do not use below grade.

For atmospheric use only.

Do not use on asphalt surfaces.

Not for immersion service.

Before using, carefully read **CAUTIONS** on label.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

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CLEANUP INFORMATION

Clean spills and spatters, hands and tools immediately with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvents to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents