



TUFFCRETE®

SOLVENT ACRYLIC WATERPROOFING CONCRETE STAIN CST-5XXX

Features

- Xylene-based acrylic waterproofing concrete stain
- Retards Spalling and Dusting
- Color Fade Resistant
- Fast Drying
- Penetrates into concrete surfaces
- Abrasion resistant

Recommended For

- For commercial and residential applications
- Stucco, Aggregate, Floors, Ramps, Driveways, Walkways, Patios, Steps, and Block Brick. TuffCrete® Concrete Stain and Waterproofing Sealer is an interior-exterior coating for vertical or horizontal concrete surfaces. The cured film has good resistance to ponding water

General Description

TuffCrete® Waterproofing Concrete Stain is a solvent acrylic designed for deep penetration into concrete surfaces. This produces the necessary adhesion by penetrating porous surfaces for outstanding durability. The low sheen finish provides good slip resistance on floors and helps hide surface defects. The application of Waterproofing Concrete Stain on concrete surfaces will retard spalling and substrate deterioration. Waterproofing Concrete Stain is excellent in preventing the penetration of water, which helps reduce chipping and peeling.

Limitations

- Do not apply in direct sunlight or on hot surfaces.
- Not for immersion service.
- Tint with industrial colorants only.
- Do not apply when material temperature is above 90 °F (32 °C)

Product Information

Colors — Standard:

Clear (CST-5100)	Tile Red (CST-5505)
White (CST-5110)	Terracotta (CST-5509)
Gray Pearl (CST-5308)	Pine Green (CST-5789)
Light Gray (CST-5310)	Desert Sand (CST-5922)
	Saddle Brown (CST-5998)

— Tint Bases:

Neutral Base (CST-5190)
Tint only with Industrial Colorants

— Special Colors:

Contact your retailer.

Certifications & Qualifications:

The products supported by this data sheet contain a maximum of 720 grams per liter VOC/VOS (6 lbs. /gal.) excluding water and exempt solvents.

Master Painters Institute MPI # 58, 104

VOC REGION	COMPLIANT
FEDERAL	YES
OTC	NO
OTCII	NO
CARB	NO
CARB07	NO
UTAH	NO
AZMC	NO
SCAQMD	NO

Technical Assistance:

Available through your local authorized independent Insl-x retailer. For the location of the retailer nearest you, call 1-866-708-9180, or visit www.insl-x.com

Technical Data◇

	White
Vehicle Type	Acrylic
Pigment Type	Titanium Dioxide
Volume Solids	25.0 ± 1.0%
Coverage per Gallon at Recommended Film Thickness	300 – 400 Sq. Ft.
Recommended Film Thickness	– Wet 4.0 – 5.4 mils – Dry 1.0 – 1.4 mils
Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.	
	– Tack Free 1 Hour (Clear/30 Minutes)
Dry Time @ 77 °F (25 °C) @ 50% RH	– To Recoat 2 Hours – Light Foot Traffic 2 Hours – Heavy Foot Traffic 24 – 48 Hours
High humidity and cool temperatures will result in longer dry, recoat and service times.	
Dries By	Evaporation
Viscosity	55 – 60 KU
Flash Point	45 °F (TT-P-141, Method 4293)
Gloss / Sheen	Colors: 25 – 30 @ 60° Clear: >80 @ 60°
Surface Temperature at Application	– Min. 50 °F – Max. 90 °F
Thin With	Do Not Thin
Clean Up Thinner	Xylene
Weight Per Gallon	9.0 lbs.
Storage Temperature	– Min. 50 °F – Max. 90 °F
Volatile Organic Compounds (VOC)	
	670 Grams/Liter 5.59 Lbs./Gallon

◇ Reported values are for White. Contact dealer for values of other bases or colors.

Tuffcrete® Solvent Acrylic Waterproofing Concrete Stain CST-5XXX

Surface Preparation

Uncoated Concrete: All fully cured and uncoated concrete must be clean, dry and free of oil, grease, dirt or other foreign matter that could interfere with penetration and adhesion. Grease, release agents and dirt can be removed by scrubbing the surface with an Oil and Grease Emulsifier. Rinse well with clean water. To neutralize uncoated concrete, etch the surface with a concrete etching material or muriatic acid. Follow all label instructions carefully.

Previously Coated Concrete: Remove all oil, grease, dirt or other foreign matter by scrubbing the surface with an Oil and Grease Emulsifier. Rinse well with clean water and allow it to dry. Previously coated surfaces should be tested with Concrete Stain & Waterproofing Sealer to determine coating compatibility so lifting of the old finish does not occur.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Concrete Stain & Waterproofing Sealer may be applied by low pressure airless spray, roller or brush. Apply evenly in thin coats to avoid lap marks at 300-400 square feet per gallon. Allow the first coat to dry two hours then apply a second coat of Concrete Stain & Waterproofing Sealer. If a high sheen or additional durability is needed, spray-apply one or two coats of Insl-x® CST-5100 Clear over the last coat of pigmented Concrete Stain & Waterproofing Sealer. CST-5100 Clear can be used separately as a clear sealer to reduce dusting and improve maintenance. This product is formulated to be applied without thinning. Do not thin if this would result in the product exceeding any VOC regulations in effect where it is being applied.

TO AVOID SOLVENT ENTRAPMENT, APPLY IN THIN COATS

Do not apply when ambient, surface or material temperature is in excess of 90 °F

Test all previously coated surfaces with Concrete Stain & Waterproofing Sealer to determine coating compatibility. This acrylic coating contains Xylene, which could cause lifting of some types of coatings.

- Do not use around open flame. Extinguish all pilot lights and do not smoke during application.
- Do not apply in direct sunlight or on hot surfaces as gas blisters can be created by the heat turning the solvent into a gas.
- When acid etching the surface, always add acid to water. Mix solution in a polyethylene bucket.

Always wear protective clothing, boots, gloves and goggles.

Clean Up

Clean up tools with xylene.

USE COMPLETELY OR DISPOSE OF PROPERLY. This product contains organic solvents which may cause adverse effects to the environment if handled improperly. Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.

Disposal of wastes containing either organic solvents or free-liquids in landfills is prohibited. **Local disposal requirements vary; consult your sanitation department or state-designated environmental agency for local disposal options.**

Environmental Health & Safety Information

DANGER!

FLAMMABLE LIQUID AND VAPOR

VAPOR HARMFUL

Contains: Aromatic naphtha, 1,2,4-Trimethylbenzene, Xylene

HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD. CAUSES IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. VAPORS MAY AFFECT BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHES AND NAUSEA.

Possible birth defect hazard. Contains, **Toluene**, which may cause birth defects based on animal data

NOTICE: Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Caution: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.

Keep away from heat, sparks and flame. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, or other flames, sparks, heaters, or static discharge. Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

Use only with adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Vapors may spread long distances. Use portable explosion-proof ventilating and lighting equipment. Connect to exterior power source. If exhaust fans are used, the motors must be explosion proof. Keep electrical power and gas supplies off until all vapors are gone.

Do not breathe vapors, spray mist or sanding dust. Avoid contact with eyes, skin and clothing. To avoid breathing vapors or spray mist open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor levels are above the applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Aspiration Hazard. Small amounts aspirated into the respiratory system may cause mild to severe pulmonary injury. Close container after each use. Wash thoroughly after handling.



WARNING: Cancer and Reproductive Harm—
www.P65warnings.ca.gov

FIRST AID: If affected by inhalation of vapors or spray mist, remove to fresh air. In case of eye contact, immediately flush with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If swallowed, do not induce vomiting. Get medical attention immediately.

IN CASE OF FIRE – Use foam, CO₂, dry chemical or water fog.

IN CASE OF SPILL – Absorb with inert material and dispose of as specified under “Clean up”.

KEEP OUT OF REACH OF CHILDREN

Refer to Safety Data Sheet for additional health and safety information.