TuffCrete®

Solvent Acrylic Waterproofing Concrete Stain
CST-5XXX

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.

- Retards spalling and dusting
- Fast drying
- Color fade resistant
- Abrasion resistant

Usage

An interior-exterior coating for vertical or horizontal masonry surfaces for preventing the penetration of water. Apply in one coat as a stain or two coats as a low solids opaque coating. Also available in a clear finish. Use on floors, driveways, steps, patios, pool decks, ramps, block walls, pre-cast panels, brick or stucco.

Colors	Clear (5100), Tintable White (5110), Gray Pearl (5308), Light Gray (5310), Tile Red (5505), Terracotta (5509), Desert Sand (5922), Saddle Brown (5998)
Bases	Tintable White (5110), Neutral Base (5190)
Colorant System	Industrial

Technical Data

Vehicle		Acrylic
Pigment		Titanium Dioxide
Volume Solids		25 ± 2%
Spread Rate Per Gallon		300 – 400 Sq. Ft.
Recommended Film Thickness	Wet:	4.0 – 5.3 mils
	Dry:	1.0 – 1.3 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.

Dry Time 77 °F / 25 °C (50% RH)	To Touch:	Colors: 1 hour Clear: 30 minutes
	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.

Surface Temperature During Application	Min:	50 °F
	Max:	90 °F
Viscosity		57 ± 4 KU
Flash Point		45 °F (TT-P-141, Method 4293)
Sheen / Gloss		Colors: 25 – 30 @ 60° Clear: 80+ @ 60°
Clean Up		Xylene
Thinner		Do not thin
Weight Per Gallon		9.0 lbs.
Storage Temperature	Min:	40 °F
	Max:	90 °F
VOC		< 720 g/L

Surface Preparation

Uncoated Concrete - All cured and uncoated concrete must be at least 30 days old, clean, dry and free of oil, grease, dirt, laitance or other foreign matter that could interfere with penetration or adhesion. Grease, oil, release agents and dirt can be removed by scrubbing the surface with a heavy-duty oil and grease emulsifier. Rinse well with clean water. Bare concrete must be porous. Most horizontal concrete requires acid etching with a concrete etching product. Follow all label instructions carefully. A properly etched surface should have a texture like medium/fine sandpaper.

NOTE: Extremely smooth or dense pre-cast panels should be aggregate blasted or acid etched prior to application of the stain in order to assure adequate penetration and adhesion.

Previously Coated Concrete - Remove all oil, grease, dirt, loose paint or other foreign matter. Scrub the surface with a heavy-duty oil and grease emulsifier. Rinse well with clean water and allow it to dry thoroughly. Glossy surfaces must be sanded to remove all gloss. A test area to determine coating compatibility so lifting of the old finish does not occur is recommended. Acid etching of painted or sealed surfaces is neither required nor recommended.

Coating Preparation - Be sure coating is mixed thoroughly prior to application. If more than one batch number is being used, it is a good idea to intermix gallons in a larger container to assure color uniformity.

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 Informational Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Compliance & Certifications

FEDERAL	✓
OTC	-
OTC II	-
CARB	-
CARB07	-
CARB19	-
UTAH	-
AZMC	-
SCAQMD	-
MPI	58, 104

Limitations

- Do not apply in direct sunlight or on hot surfaces.
- Do not apply if the surface or ambient temperature is below 50 °F (10 °C) or more than 90 °F (32.2 °C).
- Not intended for immersion service.
- Tint with industrial colorants only.

Technical Assistance

Available through your local authorized independent retailer.

call 1-866-708-9180
visit www.insl-x.com

Application

TuffCrete® 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 TuffCrete®. If a high sheen or additional durability is needed, spray-apply one or two coats of CST-5100 Clear over the last coat of pigmented TuffCrete®. 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 more than 90 °F. Test all previously coated surfaces with TuffCrete® Solvent Acrylic Waterproofing Concrete Stain to determine coating compatibility. This solvent 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.

Spray, Airless:
Pressure / 1,500 – 2,500 PSI
Tip / 0.011 – 0.015

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

COMBUSTIBLE LIQUID AND VAPOR
VAPOR HARMFUL

HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD. CAUSES IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC SKIN REACTION.

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.

Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer's directions for respirator use. Close container after each use. Wash thoroughly after handling.

WARNING Cancer and Reproductive Harm– www.P65Warnings.ca.gov
Refer to the product label & Safety Data Sheet for product specific information.

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IN CASE OF FIRE – Use foam, CO_2, 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
PROTECT FROM FREEZING

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

Manufactured by Benjamin Moore & Co., 101 Paragon Drive, Montvale, NJ 07645 Tel: 866-708-9180 www.insl-x.com CST-5XXX US 051926
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