

STAT-CRETE

Conductive, Water-Based Epoxy/Acrylate Finish For Multiple Surfaces

This conductive, water based epoxy/acrylate provides outstanding durability and abrasion resistance, while eliminating electrostatic charges which can damage sensitive electronic components or equipment. *Stat-Crete* also displays superb resistance to a wide variety of chemicals and solvents commonly found in industrial and commercial environments. When cured, *Stat-Crete* exhibits characteristics superior to solvent based urethanes, and rivals those of solvent based epoxy coatings.

Stat-Crete produces superior results when used on a broad range of concrete, ceramic and even vinyl composition tile surfaces. This product is available in Medium Gray, Light Gray, Beige, and Light Blue, Emerald Green is available as a special order. *Stat-Crete* complies with the stricter Ozone Transport Commission (OTC) and California Volatile Organic Compound (VOC) Regulations. The volatile Organic Compound Content \leq 350 grams/liter.



APPLICATION & MAINTENANCE

New concrete floors should be allowed to cure a minimum of thirty days. Application to floors colder than 60° F is not recommended. Floor surfaces must be free of any release agents, curing compounds, salts, or efflorescence before coating. Sweep and then wash floors with one of Perma's degreasers such as *Grease Strip*, *Grease Cutter* or *Citru-Gest* to remove oil, grease, and soil. Follow by etching surface with *Prepare*, then thoroughly rinse with clean water.

If floor has been previously coated, a small area should be cleaned, roughed up by screen dishing with a 80-100 grit screen, washed to remove dust and soil, and then sealer applied to test for adhesion, lifting, etc. Any areas of the existing coating which display flaking or poor adhesion should be removed. Wash the stripped areas, acid etch, and rinse thoroughly. Allow the floor to dry.

Coated Vinyl Tile should be stripped using Perma *Eliminator* or *Brut* finish removers. Roughen the stripped surface by wet screen dishing using a diluted solution of *Super Blue* cleaner/degreaser and a 100-120 grit disk on a 175-300 rpm buffing machine or automatic scrubber. Remove the soiled screening solution with a wet vacuum or automatic scrubber. Rinse the floor with clean water to remove any soil or tile dust not removed by vacuuming.

Metal, Fiberglass or Wood should be thoroughly cleaned and degreased using an appropriate cleaning solvent such as Denatured Alcohol, Isopropanol, Mineral Spirits, etc. Sand the surface to be coated with 80-100 grit sand paper. Remove any dust from sanding with the appropriated solvent. Allow the solvent to evaporate completely.

APPLICATION-Catalyzed *Stat-Crete* should be used within six hours of mixing. Prepare only the quantity necessary for immediate use. Add premeasured catalyst to epoxy base. Stir gently until the catalyst has been thoroughly mixed in. Allow catalyzed *Stat-Crete* to stand for 5 minutes.

Apply catalyzed *Stat-Crete* with a short nap (1/4"-3/8") roller in thin, uniform coats. A minimum of 2 coats is necessary to achieve a uniform appearance on smooth surfaces. Average application is 3 coats. Rough or textured surfaces may require additional coats. The initial coat will cover approximately 400-500 ft² per gallon. Allow the initial coat to dry for 5-7 hours, then apply a second coat. Second coat coverage is approximately 500-600 ft² per gallon. *Stat-Crete* can also be applied using an electric airless sprayer. Mask surrounding areas to protect them from over-spray. Use of an extension pole can help reduce over-spray. Positive results have been obtained using a 10" fan pattern spray tip with a .017 orifice. Apply a thin, uniform coat, making sure to move at a constant rate. Spraying can apply a heavier coat than rolling, so additional drying time may be required if a second is to be applied.

NOTE: This product is not recommended for applications that experience reoccurring standing water. Finished floors may be opened to light traffic, under normal curing conditions, after 24 hours. Complete curing with maximum durability and chemical resistance will take 5-7 days.

CLEANING AND MAINTENANCE: Thoroughly cured *Stat-Crete* may be cleaned and maintained with a number of Perma's cleaner/degreasers, depending on the soil conditions and facility requirements.

For *Stat-Crete* installations that are finished with #27 *Stat-Coat* or #29 *Stat-Seal*, clean using #137 *Stat-Clean* per label or specification sheet instructions.

For facilities requiring the cleaning of multiple ESDC surfaces *Stat-Crete* may be cleaned using #130 *Shock Stop*, multi-surface cleaner, in conjunction with anti-static carpet, mats, work surfaces, etc.

***Stat-Crete* may also be cleaned with any of the following standard multi-surface cleaner/degreasers** depending on the prevailing soil conditions: #127 *Tops Neutral Cleaner* for light soil environments, #129 *Super Blue*, concentrated, no-rinse cleaner/degreaser/deodorizer for moderate soil environments or #170 *Citru-Clean*, USDA compliant, citrus cleaner/degreaser for heavier or oily soil environments. For specific dilution and application instructions please review the product specification sheets or labels.

All of the previously mentioned products may be applied through an automatic scrubber equipped with red buffing/cleaning pads or used in damp or wet mopping applications.

PRODUCT SPECIFICATIONS

Gloss	Satin/Matte Finish
Solids	35 ± 1%
Resistivity-ASTM D257	>1.4E04, <1.0E06 RTG on concrete substrate @ 40% rH
Static Decay	Meets ESD S20.20-2007, 91.7 @ <3.5E07
Static Generation ESD STM 97.2	<0.1 seconds per FTMS 101B, Method 404
pH	<25 V on concrete Substrate
Weight Per Gallon	6 ± 0.5
Compressive Strength (on 3 Mil Vinyl Tile)	9.1
Hardness	Static Load DIN 16961.2 > 2500 psi
Indentation/Impact Resistance	30 (Sward)
Abrasion Resistance (ASTM D1044)	DIN EN 433 Average <5%, maximum single reading 8%
Viscosity	SC-10-F Wheel, 550 Gm Weight
Flash Point	Cycle 10,000, % gauge loss 1.6
Freeze/Thaw Stability	400-600 CPS
Dry Time	> 212°F
Slip Resistance (ASTM F 609)	Do Not Freeze
Coverage	Dry to touch 5-7 hours
Film thickness @450 ft ² per gallon	Open for traffic 10-12 hours
Odor	>.5 SCOF
VOC Content	450 - 600 ft ² per gallon
	Approximately 3 mil wet, 1.1 mil dry
	Moderate (Glycol Ether, Acetone)
	≤350 grams/liter

CHEMICAL RESISTANCE

30 Minute Exposure Time

Acetic Acid (Concentrate)	No Effect
Acetic Acid (5% Solution)	No Effect
Acetone	Very Slight Softening, No Color Change
Ammonium Hydroxide (28%)	No Effect
Amyl Acetate	No Effect
Benzene	No Effect
Butyl Alcohol	No Effect
Carbon Tetrachloride	No Effect
Cresol	Slight Surface Attack
Chloroform	No Effect
Ethyl Acetate	No Effect
Ethyl Alcohol	No Effect
Ethyl Ether	No Effect
Formaldehyde (40%)	No Effect
Gasoline	No Effect
Hydrochloric Acid (5%)	Slight Dulling
Hydrogen Peroxide (30%),	No visible change
Iodine	Yellow Staining
Methyl Alcohol	No Effect
Methylene Chloride	No Effect
Methyl Ethyl Ketone	Slight Surface Dulling
Mineral Oil	No Effect
Nitric Acid (5%)	No Effect
Nitric Acid (Conc.)	Slight Surface Attack
Phenol	Slight Surface Attack
Silver Nitrate (40%)	Slight Brown Stain
Sodium Hydroxide (50%)	No Effect
Sulfuric Acid (5%)	No Effect
Sulfuric Acid (50%)	No Effect
Trichloroethylene	No Effect
Vegetable Oil	No Effect
Xylene	No Effect

60 Minute Exposure Time

Antifreeze	No Effect
Benzyl Alcohol	No Effect
Dodecylbenzen Sulfonic Acid	No Effect
Formic Acid	No Effect
Isopropanol (IPA)	Slight Softening, No Color Change
Mineral Spirits	No Effect
Naphthol Spirits	No Effect
Octyl Alcohol	No Effect
Oxalic Acid	Slight Dulling
Phosphoric Acid (75%)	Very Slight Softening
Sodium Hypochlorite (Bleach) 15%	Very Slight Softening, Slight Dulling
Stearic Acid	No Effect
Tetrahydrofurfuryl Alcohol	No Effect
Toluene	No Effect

SAFETY INFORMATION

Health	1
Flammability	0
Reactivity	0
Personal Protection	B

Read Safety Data Sheet thoroughly before using.

IRRITANT



WARNING: Harmful if Swallowed. Contains 2-Butoxyethanol CAS# 111-76-2, Acetone CAS# 67-64-1, and Glycol Ether EP CAS# 2807-30-9. Provide adequate ventilation. Prolonged exposure may cause dizziness. If dizziness occurs, seek fresh air. Use respiration equipment if needed. Eye protection, gloves and protective clothing should be worn during use. For contact

with skin or eyes, flush with plenty of water. For ingestion or eye contact seek immediate medical treatment.



605 Springs Road, Bedford, MA 01730 USA
 Tel: 978.667.5161, Fax: 978.670.5797
 E-mail: Info@perma.com
www.perma.com