R-CRETE INC.

PRODUCT: **REACT**
REACTIVE STAINS

REACT

Chemically Reactive Concrete / Rock Stains

DESCRIPTION: React Stains are chemically reactive stains designed to color existing concrete and natural rock (RR color formulas only). React stains are water based metallic salts which mimic natures coloring process producing a deep penetrating, long lasting color effect. React Stains are available in a variety of formulations to produce different colors - (see color chart). React Stains do not use hydrochloric acid as a main ingredient and are much safer to handle and ship than most commonly used concrete acid stains (some color formulations my contain small amounts of hydrochloric acid - see color chart). React(RR) formulas are safe enough to be used on natural rock or concrete where run-off into the soil may occur.

USES: React Stains may be used on interior or exterior concrete or natural rock. It is ideal for adding color and character to patios, driveways, floors, precast concrete, concrete overlays, artificial rock formations, concrete block, pavers and retaining wall systems. React RR formulas may be used to color natural rock and scarred landscapes. React RR stains are used on boulders, around golf courses, concrete ponds, v-ditches, cart paths, etc. They may also be used on scarred rock landscapes from road construction, mining or commercial development.

ADVANTAGES: React Stains penetrate the surface and produce a deeper layer of color than typical acid based or acrylic concrete stains. They are safer to handle than most commercially available acid stains based on hydrochloric acid. The color effects produced are unique and long lasting. React Stains offer a broad selection of colors.

LIMITATIONS:

- React Stains will produce different colors on different substrates and in different application conditions. **Always test prior to use!**
- React Stains take time to react and produce the desired color. The time will be affected by the formula chosen, the substrate and the application conditions. See color listing for more details on individual colors.
- Although React Stains have a broad color selection compared to competitive chemical stains, the choices are less than acrylic stains.
- React Stains are safer than most acid stains, however, it is an acidic solution and must be handled with care. Some formulas contain chromium components and must be handled with precaution and kept from run off into soil or drainage. See MSDS Prior to handling and use.

APPLICATION:

Preparation: All concrete must be free from curing agents, sealers, oil, grease, water repellant or any bond breakers prior to staining. All concrete should be cleaned with a non-solvent cleaner and pressure washed (TSP, soap etc.).Do not acid wash concrete prior to staining. Older concrete may not react with React Stains or may take an extended time to achieve the desired color. In some cases a second coat may be beneficial. **ALWAYS TEST.**

New concrete should be a minimum of 3 days old prior to staining. Remove curing agents that will interfere with penetration or reaction of the stain.
Each color is chemically unique and has different handling, application, coloring time and environmental precautions which must be considered. It is important to know the properties of each color prior to handling and application.

Application: React Stains may be applied by brush, roller, or spray. Acid resistant hand pump sprayers are the most commonly used method of application. Experiment with application techniques prior to application – color combinations, water misting for color integration etc. The surface should be thoroughly saturated with the stain.. Special care should be given to high spots - (at saw cut joints, etc.).One coat is adequate for most applications, however a second coat may be used for dark tones. Always test prior to recoating. React Stains are thin liquids and will migrate onto surrounding surfaces - saw cut joints or similar are required. Tape will not stop color migration. Thoroughly protect surrounding walls, metal, landscaping etc., from stain overspray.

On Concrete, wash stained surfaces after reaction time to remove any reaction residue.
Capture all residue. Do not allow residue to enter drains or ground water. Runoff will stain surrounding areas.

The time required to achieve the desired color can vary dramatically. The formula, substrate and application conditions have a major influence.
Time can vary from a few hours, a few days to a few weeks. See color listing for more details on individual colors. **Always test prior to staining. Read MSDS prior to handling.**
Sealing: React Stains used on concrete surfaces with regular human contact – driveways, patios, floors etc., should be sealed to protect them from chemical spills. A penetrating silane – siloxane sealer (R-Crete Silox PS-2) will provide a natural look. A clear acrylic coating will provide additional chemical resistance and enhance the stained color (R-Crete Stone Stain – Clear or Hard Top HT-1). React Stains used on natural Rock or landscapes should not be sealed

WARNING: Acidic solution. Avoid contact with skin. Will cause skin, eye or respiratory irritation. May be harmful or fatal if swallowed, Keep away from children, Wear protective gloves, goggles and clothing when handling. Use with adequate ventilation. Store containers in a well ventilated area. Corrosive liquid. **Read MSDS prior to handling.**

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