

ENGRAVE-A-CRETE, INC.

Technical Data Sheet (TDS) for RAC Stain

Reactive Acid Chemical Stain for Concrete

PRODUCT USE & LIMITATIONS

Cure Requirement RAC Stain may only be applied to **fully cured concrete**. Allow **28–45 days** after placement for complete hydration.

Safety Always use appropriate PPE: goggles, face shield, chemical-resistant gloves, apron, and respirator. Avoid contact with skin and eyes. Do not inhale vapors. Provide ventilation during mixing and application. Refer to the SDS for full safety information.

COVERAGE RATE

Coverage varies based on concrete texture, porosity, temperature, and ambient conditions. **Typical coverage: 100–200 sq ft per gallon**

SURFACE PREPARATION

Concrete must be structurally sound, non-dusting, clean, and free of contaminants. The surface must be **open and porous** for proper reaction.

Approved Preparation Products

- **CR-580 Degreaser** – Removes oils and grease
- **CR-590 Paint & Sealer Remover** – Removes coatings, paints, and sealers
- **CR-765 Surface Etch & Prep** – Removes laitance and opens pores
- **CR-585 Surface Neutralizer** – Restores pH after etching

Preparation Steps

Step 1 — Paint/Sealer Removal (If Needed) Remove all coatings using **CR-590 Paint & Sealer Remover**.

Step 2 — Degreasing If oils/grease are present **OR** if CR-590 was used, scrub the surface with **CR-580 Degreaser**.

Step 3 — Etching & Neutralizing (Required for smooth interior floors or slabs with heavy laitance)

- Dilute **CR-765 Surface Etch & Prep** at **10:1 (water:etch)**
- Scrub with stiff bristle broom
- Rinse thoroughly before solution dries
- Repeat if additional porosity is needed
- Neutralize with **CR-585 Surface Neutralizer** (8 oz in 5 gallons water)
- Scrub in and rinse

Step 4 — Mechanical Cleaning

- **Interior floors:** Use a floor buffer with black pad, sanding screen, or coatings-removal pad
- **Exterior concrete:** Pressure wash thoroughly

APPLICATION OF RAC STAIN

Step 5 — Apply RAC Stain Use only **plastic or non-corrosive equipment**. Approved tools: plastic pump sprayer, mop, brush, rag, sponge. Clean equipment with water immediately after use.

Dilution (Optional) For lighter colors, dilute RAC Stain with **CR-645 RAC Stain Color Extender**. (Keeps acidity high – can dilute with regular water if not required)

Step 6 — Reaction Time Allow **minimum 4 hours** after the final coat for full color development.

NEUTRALIZATION & RESIDUE REMOVAL (REQUIRED)

Step 7 — Neutralize Apply **CR-585 Surface Neutralizer** (8 oz in 5 gallons water). Scrub thoroughly with stiff bristle broom. Use wet vacuum to collect residue and wastewater.

Step 8 — Remove Residue

Interior Floors

- Scrub using a floor buffer with nylon bristle brush or white pad
- Wet vacuum all residue and wastewater
- Dispose according to local, state, and federal regulations

Exterior Surfaces

- Pressure wash thoroughly
- Wet vacuum residue and wastewater
- Dispose according to regulations

Caution: Runoff can stain adjacent concrete, buildings, and landscape features. Prevent cross-contamination of colors.

SEALING

Step 9 — Apply Clear Sealer A clear protective sealer is **strongly recommended** for abrasion resistance, UV protection, and long-term durability. For exterior surfaces, use a **non-skid additive** to reduce slip hazards.

SPECIAL CONSIDERATIONS

Color Testing

Always apply a test sample in an inconspicuous area using the same application method planned for the full project.

Color Change Warning

Colors **CR-607 Olive Mist**, **CR-608 Azure Sky**, **CR-609 Mossy Oak**, and **CR-610 Summer Wheat** may **partially or fully turn black** on concrete **without a vapor barrier** (typical exterior slabs) when moisture migrates upward through the slab.

Color Variances

Final appearance may vary from color charts due to concrete age, composition, porosity, texture, and finishing methods. Natural concrete characteristics will show through the stain.

WARRANTY

This warranty is made in lieu of all other warranties, expressed or implied. User is responsible for determining product suitability and assumes all risks associated with use. Manufacturer and seller do not control application conditions and make no warranty regarding results.

If goods prove defective, the sole remedy is replacement of the product. Claims must be submitted in writing within **one (1) year** of shipment. Manufacturer and seller assume no liability for injury, loss, or damage arising from use of this product.

WARNING — CORROSIVE

- Causes skin and eye burns
- Harmful if swallowed or inhaled
- Severe eye irritation; may cause blindness
- Vapors/mist irritate nose, throat, lungs
- Use proper PPE
- Refer to SDS for full chemical safety information

DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN.

FIRST AID

Skin: Wash with soap and water. Discard contaminated clothing. **Eyes:** Flush immediately with large amounts of water, holding eyelids apart. **Seek medical attention immediately.** **Ingestion:** Give several glasses of water or milk. **Seek medical attention immediately.** **Inhalation:** Move to fresh air.

CALIFORNIA PROP 65 WARNING

This product may contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

STORAGE & HANDLING

Close container immediately after use. Store upright in tightly sealed container away from heat and combustible materials. Never transfer to an unmarked container. Do not reuse empty containers; they may contain hazardous residues. Review SDS before use.

ORDERING INFORMATION

ENGRAVE-A-CRETE, INC.

Engrave-A-Crete **Phone:** 417-924-2300 **Web:** www.ConcreteResurrection.com • www.Engrave-A-Crete.com