

TAKTL® Facade and Wall Elements are manufactured with a proprietary formulation of Ultra High Performance Concrete. TAKTL is over four times as strong as traditional precast concrete and performs exceptionally well in harsh conditions that cause most concrete to crack and degrade over time.

In order to accommodate projects in which the natural qualities of TAKTL's color variation and weathering are NOT desired, a standard, factory-applied option, ColorSeal/T, is available. This method produces an even color within and between panels and exhibits minimal weathering over extended periods. Please note that the ColorSeal/T process eliminates the subtle batch-to-batch color variation that results from raw materials that are natural minerals.

ColorSeal/T™ provides superior protection and beauty for both exterior and interior concrete. Features:

- Protects and beautifies interior and exterior surfaces
- Will not peel or flake
- Resists oil, gasoline, water, and UV rays
- Makes the surface easier to clean
- Soap and water clean up

ColorSeal/T™ CONCRETE STAIN PRODUCT DATA

| | | |
|---------------------------------------|----------------------------------|----------|
| Vehicle Type | 100% Acrylic | |
| VOC (less exempt solvents) | 1.87 lb/gal* | 224 g/L* |
| Pigmented Sheen | Low Luster < 35 | |
| Volume Solids | 30 ± 2%* | |
| Weight Solids | 43 ± 2%* | |
| Weight per Gallon | 10.0 lb* | |
| Static Coefficient of Friction | 0.9 | |
| Water Vapor Transmission ASTM D1653 | 5.21 ± 0.12 grains/(hr ft2) | |
| Perm Rating ASTM D1653 | 11.2 ± 0.3 grains/(hr ft2 in Hg) | |

*Value may vary by color

Cleaning To clean and maintain TAKTL panels, use only water and mild detergent. For best results:

1. Do not use harsh cleaners, solvents or abrasives; they might alter the appearance of the panels.
2. Use only a mild detergent with water and a soft scrub brush (if required).
3. Rinse the detergent off completely with clean water, brushing lightly with a soft plastic brush to ensure complete removal.
4. Power washing is an acceptable means of cleaning. Use a wide nozzle at a minimum of 5 feet from the surface of the panel. Close range and small (concentrated) nozzle size will damage the finish.
5. Allow the panel face to dry thoroughly and evenly.

ColorSeal/T™ PERFORMANCE DATA¹

| STANDARD | PROPERTY | RESULT |
|---------------------------------------|--|--|
| ASTM G154 | Accelerated Weathering ² | 3000 hrs, no effect ΔE (total color difference) = 0.35 |
| ASTM G190 | Color and Gloss Retention | Color: < 0.30 change Sheen: 0.5 difference at 60° |
| AASHTO T 259/T 260 | Chloride Ion Penetration | Reduction of 54% at 0.0625"-0.5" penetration, 83% at 0.5"-1.0" penetration, and 36% at 1.0"-1.5" penetration |
| Rilem Tube Method #11.4 | Resistance to Wind Driven Rain | Zero water penetration over 60 minute exposure |
| ASTM B117 | Resistance to Salt Spray | No film defect after 500 hour exposure |
| ASTM B1712 | Resistance to Sulfide Staining | No change after 15 minutes |
| | Chemical Resistance: 10% Sodium Hydroxide | No softening or color change |
| | Chemical Resistance: 10% Ammonium Hydroxide | No softening or color change |
| | Chemical Resistance: Mineral Spirits KB value 38 | No softening or color change |
| Fed Std 141A Method #205 ASTM D2794 | 6 inch-pounds direct impact | No film chipping |
| Flexibility ASTM D522 Method B | 1-inch diameter mandrel | No cracking, breaking, etc. |
| | Scrub Resistance | 1200 cycles, no failure |
| ASTM 3359 Classification 5A | Adhesion Testing Method A X-Cut Tape Test | No film loss |
| ASTM 3359 Classification 4B | Adhesion Testing Method B Cross-Cut Tape Test | < 5% removed |
| ASTM D968 | Abrasion Resistance | > 2000 Liters of sand |

¹ Test data is provided for White (20.00121-) ColorSeal/T™.

² Generally, long-term fading in accelerated xenon light chamber testing is negligible. It can vary minimally depending on color. Certain vibrant colors in the red to yellow family will fade more. For example:

- White, 3000 hours, no effect, ΔE (total color difference) = 0.35 (a normally invisible difference)
- Custom Brown, 2000 hours, ΔE = 1.69 (a very small difference, only obvious to a trained eye)
- Contact TAKTL Technical Support for more information.