

Dual-Tech

Technical Data Sheet

DESCRIPTION

Dual-Tech is a chemically engineered blend of water-based silicate and hardener/densifier polymers. Dual-Tech has a two-fold process in one product - it chemically reacts within the top wear layer of concrete to densify and harden the surface and it produces a surface membrane that seals the surface against spills and stains.

PRIMARY APPLICATIONS

Warehousing, Distribution Centers, Malls, Manufacturing Plants, Parkades.

FEATURES/BENEFITS

Seals and strengthens concrete
 Reduces tire marks
 Dustproofs the surface
 Hardens the concrete
 Repels liquids such as water, oil
 and many chemicals
 Excellent freeze/thaw resistance

Environmentally Safe and non-hazardous
 Easy Penetration for Ease of Application
 No rinsing required
 VOC Content - 0.00 g/L
 Produces surface gloss with abrasion
 Can be Polished

TECHNICAL INFORMATION

VOC Content - 0 g/L
 Flashpoint - none
 Viscosity - water thin
 pH - 11
 Color - auburn
 Skid Resistance - good
 Drying Time at 70F (21C) - 1 hr
 Light Foot Traffic - 1 to 2 hours
 Wheel Traffic - 24 hours
 Physical State: Liquid
 Odor - None

Densifier / Water Repellent



COVERAGE

Typical rate on hard troweled dense concrete is 200 - 300 sq.ft./gal (4.9-7.4 sq.m/l)

PACKAGING

55 gallon drums (205 Litre)

5 gallon pails (18.9 Litre)

SHELF LIFE

2 Years in original, unopened container.

CAUTION

Do Not Freeze.

WARRANTY

We warrant our products to be of good quality and free of defects in material and workmanship. See full warranty upon request.

SURFACE PREPARATION

Not recommended for colored concrete.

Protect surrounding areas from overspray, spills, tracking and equipment contact. In case of accidental contact, rinse thoroughly with water immediately.

Old Concrete/Existing Concrete

Ensure all surfaces are structurally sound and free of all contaminants such as oil, contaminants and any film forming curing compounds and sealers. Fill and repair all holes, cracks and deteriorated areas before application.

All Concrete should be thoroughly cleaned and rinsed with clean water. After washing allow the concrete to dry completely before application.

New Concrete

Ensure surfaces are clean and free of all contaminants, and any film forming curing compounds or sealers.

Ensure the concrete has been cured for a minimum of 28 days before application.

On colored concrete, Cornerstone Dual-Tech must be applied to fully cured concrete that is a minimum of 28 days old to allow for adequate penetration of the surface.

During cooler temperatures or higher relative humidity conditions, dry times will be increased.

Testing

ASTM C666 - Resistance to Freeze/Thaw - Excellent

Stain Resistance - After 12 Hours

Coffee - Fair

Beet Juice - Good

Ketchup - Fair

Kerosene - Good

Used Motor Oil - Good

Red Wine - 10 minutes - Good



APPLICATION PROCEDURES**Old Concrete/Existing Concrete**

Not recommended for colored concrete.

Product is ready to use, no dilution is needed. Apply at approximately 250 sq.ft./gal. (6.1 sq.m/l) Moisten the surface with product by sprayer or microfiber applicator. When spraying a spray nozzle that produces a flow of 1/4 gallon per minute under 40 psi is recommended. Keep surface moist with product for 20 minutes do not let material stand and puddle. If excess material is still on the surface after 20 minutes, use a microfiber applicator to even out excess material.

New Concrete

Not recommended for colored concrete.

Product is ready to use, no dilution is needed. Apply at approximately 300 sq.ft./gal (7.4 sq.m/l) using a low pressure sprayer or by spreading evenly using a microfiber pad. Do not allow material to form puddles on the surface as this may cause white residue to form and stain. If excess material is still on the surface after 20 minutes, use a microfiber applicator to even out excess material.

FINAL STEPS**MAINTENANCE**

Dual-Tech floors require very little maintenance other than scheduled scrubbing with water and a neutral or alkaline cleaner. All spills should be cleaned immediately. No waxes or subsequent surface treatments are necessary.

CLEAN-UP

Clean up equipment and tools with a mild soap and water.

CAUTIONS

Immediately wash off over-spray from glass, aluminum, or highly polished surfaces with water to avoid etching. Product is slippery when wet.

Do not apply product if the temperature of the concrete is less than 40 F (4 C) or above 135F (57C)

Keep the product from freezing. Do not allow Cornerstone Dual-Tech to form puddles, broom puddles out before they dry or staining may occur.

Wear skin and eye protection. Wash hands thoroughly after handling.

Do Not apply to colored concrete.

See MSDS for complete precautions.

