STRONGWALL

STRONGSEAL-CIT

STRONGSEAL-CIT is a cutting-edge corrosion inhibitor engineered for traf-fic-bearing, steel-reinforced concrete substrates. Its highly reactive, one-component, low-viscosity formula enables easy application and deep penetration, offering lasting protection against electrochemical corrosion. Being 99% active and solvent-free, this silane-based solution is both safe and effective in safeguarding reinforced concrete.

ADVANTAGES

- Reduces water, chloride uptake, and chloride-induced corrosion rate.
- Effective in carbonated concrete steel-reinforced structures and alkaline environments.
- Maintains surface appearance: colorless, non-film forming.
- Rapid absorption on undiluted concrete surfaces.
- Applicable to old and new structures.
- Ideal for marine environments, high humidity, and areas with deicer salts.
- Protects against ASR. Maintains coefficient of friction.
- Allows 100% moisture vapor transmission.
- Deeper penetration than other sealers.
- VOC compliant.

PRIMARY APPLICATIONS

- Appropriate for load-bearing reinforced concrete substrates.
- Provides long-term protection for various types of steel-reinforced concrete, including cast-in-place, high-strength, GFRC, and precast surfaces.
- Guards against moisture intrusion, deicing salts, and airborne contaminants.
- Optimal for projects requiring fast cure times to minimize traffic disruption.

All personnel must wear appropriate safety equipment on the job site.

TYPICAL PHYSICAL PROPERTIES @ 75°F

The technical data herein, derived from tests under ideal conditions in the manufacturer's or independent laboratories, is accurate to the best of our knowledge. However, variations may arise from dissimilar testing conditions or equipment. Users should independently verify the data's applicability to their specific use.

Color	*Clear*
Chemistry	*Organofunctional Silane*
Solvent	*Free*
Density	*0.88 g/cm³*
Flash Point	*145°F*
Active Content	*> 98%*
ASTM D 6489 *Reduction in Water Absorption*	*96% reduction*
ASTM C 642 *Gain by mass @ 48 hrs*	*< 0.1%*
ASTM C 642 *Gain by mass @ 50 days*	*< 0.25%*
AASHTO T 259 *Reduction in Chloride Absorption*	*95% min reduction at a depth of ½"-1"*
M-82 *Protocol for Evaluation of Corrosion Mitigation*	*Attains 80% integrated corrosion current reduction with high chloride concentration at steel depth.*

PRODUCT INFORMATION

APPROXIMATE COVERAGE

The approximate coverage of STRONGSEAL-CIT can vary depending on factors such as the porosity and texture of the concrete surface. Typically, the coverage rate ranges between 100 to 200 square feet per gallon.

PACKAGING

5 GALLON PAILS | 55 GALLON DRUMS

Inspect materials to be used. Verify that all components and sizes are correct. Inspect and confirm a proper factory seal with no signs of damage or leakage.

SHELF LIFE

One year from date of manufacture as long as containers remain unopened and material is stored in a tempered area at 65° to 75°F.

JOB SITE STORAGE CONDITIONS

Indoors, off the ground, dry at 65°F to 80°F.
Keep out of direct sunlight and freezing temperatures.

SURFACE PREPARATION

Before applying STRONGSEAL-CIT, the concrete surface must be cleaned of any salt, dirt, dust, efflorescence, mold, grease, oil, asphalt, laitance, paint, coatings, curing compounds, and other foreign materials that would inhibit penetration of the sealer.

Acceptable methods include shotblasting, sandblasting, waterblasting, and grinding. These are approved on a case -by-case basis.

Delaminated, loose, or spalled concrete must be removed and repaired.

Shrinkage cracks that are dormant, shallow, and have no structural significance can be treated with a multiple-coat application of STRONGSEAL-CIT. Other cracks should be routed and treated with STRONGSEAL-CIT prior to detailing.

For optimal STRONGSEAL-CIT performance, ensure a 28-day wet curing period for the concrete.

PRECAUTIONS AND LIMITATIONS

Before applying STRONGSEAL-CIT, ensure all equipment and containers are clean and dry. Post-use, clean them with organic solvents such as methylated spirit, petrol, or thinners. Cover non-absorbent substrates like window frames, metal, plastic fittings, and window glass to prevent contact with the solution. If STRONGSEAL-CIT accidentally touches any surface, clean it promptly using alcohol or an aqueous soap solution. Take precautions to protect plant life from overspray. Keep in mind that STRONGSEAL-CIT should not come into contact with asphalt, as it may dissolve the material. Additionally, avoid allowing STRONGSEAL-CIT to accumulate on horizontally applied sealants, as it could act as a solvent.

MATERIALS GUARANTEE AND SPECIFICATION ASSISTANCE

Consult Strongwall Industries, Inc.

LEGAL DISCLAIMER AGREEMENT

Please scan the QR code to review our legal disclaimer before using our products. If you have any questions, feel free to contact us.

PROCEDURES

STEP 1: Application Conditions

STRONGSEAL-CIT, should be applied when the temperature is between 30°F and 95°F.

Do not apply if rain is expected within 4 hours of application or if high winds or other conditions prevent proper application.

Ensure the substrate is as dry as possible before applying STRONGSEAL-CIT, allowing 24 to 72 hours of drying time after rain or water cleaning. Do not apply STRONGSEAL-CIT on wet concrete.

STEP 2: Application Method

STRONGSEAL-CIT, should be applied using low-pressure pumping equipment with a wet fan-type spray nozzle, or alternately with a roller, brush, or by pouring into a crack.

Do not atomize STRONGSEAL-CIT.

A liquid film of STRONGSEAL-CIT must remain in contact with the substrate for several seconds, giving a shiny, wet appearance for 3-5 seconds on horizontal surfaces including repaired areas and a 30-50 cm shiny curtain of liquid on vertical surfaces.

Allow a minimum of 15 minutes waiting time (or until visibly dry) between coats.

POST APPLICATION GUIDELINES

After applying STRONGSEAL-CIT, it is typically recommended to wait at least 24 hours before installing a breathable coating or walking on the treated surface. However, it is always best to follow the project specific guidelines for drying times and any additional recommendations.

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