

Carbonguard – Industrial CAT 43

Matte Concrete Tinted Sealer

Description	<p>CAT 43 CONCRETE Tinted Sealer is an innovative formulation, VOC compliant, tinted sealer with dual functionality acrylic polymer, for concrete and masonry surfaces. CAT 43 Sealer prevents the ingress of moisture, both vapor or condensate and hides minor defects of the substrate. In addition, it provides resistance to the ingress of chlorides, wind-driven rain, carbon dioxide, dirt and smoke particulates. The main binding agents are un-affected by UV; therefore, the sealer will not crack, or flake and the pigments used in the formulation are UV fading resistant. The product is recommended for its protective as well as its decorative properties.</p> <p>Thin film application will not hide substrate details while correcting minor flaws such as pinholes, substrate colour disparity and surface defacement. Provides superior weathering resistance protecting the substrate from erosion, spalling and UV induced colour fading while beautifying and enhancing the appearance of the substrate.</p>
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Where to Use	It is advised to use on assemblies of masonry and concrete for industrial and highway infrastructure on vertical surfaces and on horizontal light pedestrian traffic surfaces. Examples of the structures are bridges and ancillary structures, tunnels, commercial buildings walls, segmental concrete, masonry blocks and similar building materials.
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Testing Data	<p>Concrete Adhesion: 500 psi minimum (substrate failure) ASTM D4561-17*</p> <p>Gloss @ 60°: 3.4</p> <p>Water vapor transmission: 90.4% Alberta Transportation Material Testing Standard B388</p> <p>Waterproofing performance: 75.3% Alberta Transportation Material Testing Standard B388</p> <p>Freeze-thaw resistance: 5 cycles*-not affected</p> <p>*Crown Paint internal laboratory tests</p>
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Physical Properties	Resin Type	Methacrylate resin	
	Pigment Type	Titanium Dioxide, Calcium Carbonate, Clay	
	Solvents	Xylene	
	Weight	Per Gallon	10.3 lbs.
		Per Liter	1.2 kg
	Solids	By Weight	59.5%
		By Volume	47.7%
	Volatile Organic Compounds	<390 g/l	
	Recommended Dry Film Thickness (DFT) per Coat	2.0 mils (50µ)	
	Wet Film to Achieve DFT (Unthinned material)	5.0 mils (125µ)	
Practical Coverage at Recommended DFT	Coverage rate of 200 ft ² /gallon. Could be applied in one coat of 8 mils w.f.t. on smooth surfaces or at 5 mils		

Technical Product Data Sheet



(assume 15% material loss)		w.f.t with a second 3 mils w.f.t., finishing and corrective coat after 2 hours drying time at 20°C of the first coat.
Dry Times at 77°F (25°C) and 50% Relative Humidity	Touch	Dry to the touch in 30 minutes at 20°C
	Recoat	1 hour
	Full Cure	7 days
Shelf Life		CAT-43 CONCRETE Tinted Sealer has a 24 months shelf life when stored in the original unopened packaging. Store in a dry location at 4 to 30°C (39 to 86°F).
Flash Point		>200°F (93°C) Please refer to the most recent SDS before using this product on Crownpaint.ca or CAT43.ca website.
Safety Information		For additional information, see SDS

Calculated values are shown and may vary from the actual manufactured material.

Advantages

- ✓ Easy to apply, Easy to clean and maintain.
- ✓ high solids with low odour.
- ✓ High hiding
- ✓ Excellent adhesion
- ✓ Flash rust resistant
- ✓ Tintable
- ✓ Low VOC content, LEED® Canada credit potential.
- ✓

Product Finish & Color

Available in 5 gallons (18.9L) and 55 gallons (208L) drums.

SKU	DESCRIPTION	Container Size
CAT43	White Flat	5 Gallon Pail (18.9L)
CAT43U	UltraDeep Base Flat	5 gallon Pail (18.9L)
CAT43A	Alberta Transportation Standard colors Concrete Gry, Banff Beige, Sandyridge	5 gallon Pail (18.9L)

Specification:

Concrete-Masonry
2 coat Cat43

Carbonguard – Industrial CAT43
Matte Concrete Tinted Sealer Coating

PRODUCT DATA SHEET
Edition October 2021/v2

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HOW TO USE Surface Preparation

Prior to application mix the material thoroughly to ensure colour and dilution uniformity using a slow-speed drill (at least four minutes). The material must be stirred and verified often for consistency during use. It is recommended that a new pail after stirring to be mixed with the last third of the pail before it. **Ready to use: No dilution allowed.**

General: Surfaces should be clean, dry, sound and free of any contamination, mildew, loose rust, efflorescence (concrete salts) or unsound coatings that may interfere with adhesion. If unsure, wash surface with a low suds cleaning solution like ammonia or a TSP substitute. Rinse thoroughly and allow to dry.

Mixing

This product is a single component product!! Not mixing required!

Note: Periodically stir the mixed product to maintain suspension of all solids. This is particularly important when having mixed a large volume or taking breaks in application.

Application

Surface must be inspected for the presence of laitance or efflorescence and soundness of the surface. Prepare the surface corresponding to the contaminants present. Examples: power wash for surface contaminants such as soil and pollution, acidic wash for laitance and degreasers for oil stains.

SURFACE CONDITIONS:

Repair cracks and holes wider than 1/4".
Surface must be clean, dry and above 5°C.

AIR TEMPERATURE:

between 10°C and 30°C.

WEATHER CONDITIONS:

No rain or freezing conditions are forecasted for the next 24 hours.

BEFORE APPLICATION:

Apply on a small concealed area of between 0.4 to 1m² (4-10sq. ft.) to make certain that the result meets your expectations.

APPLICATION METHOD:

Can be applied by airless sprayer, brush or roller. Use the same application method over the entire surface. Use paint gauge to measure the specified film thickness.

COVERAGE

Dense substrates will need only one coat. Porous and uneven surfaces may require additional coats. Smooth dense concrete: 4.9m²/L (201 ft²/US gal.) total at 8 mils w.f.t. for a final, applied coating thickness of 5.1 mils d.f.t. Shotcrete, unite surfaces, blocks and bricks: an additional 3.0-6.0 m²/l (122-244 ft²/US gal.) as a second coat might be necessary. Dry to the touch in 30 minutes at 20 °C at the coverage rate of 201 ft²/gallon.

SAFETY REQUIREMENTS:

Use solvent resistant applicators and PPE.
Dry to the touch in 30 minutes at 20°C at the

Apply with airless equipment only. No thinning is required. Use a 0.017" (517 tip) at 2000 to 2200 psi.

Clean Up

Clean up using Solvent. Wipe up splatters before they dry. Dispose of unused or unwanted product in accordance with local laws.

Follow all equipment manufacturer's directions to clean up spray equipment.

Limitations

- ✓ For interior use only; not suitable for exterior.
- ✓ Not recommended for application to floors, decks,
- ✓ Minimum substrate temperature 13 °C (61 °F) prior to application.
- ✓ Substrate temperature must be 3 °C (5.5 °F) above measured dew point prior to application.
- ✓ Minimum age of concrete must be 28 days depending on curing and drying conditions.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent **SAFETY DATA SHEET** containing safety-related data. Please refer to the most recent SDS before using this product on Crownpaint.ca website or your Crown Paint representative.

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of *Crown Paint Manufacturing Canada* manufactured products, are given in good faith based on Crown's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.