



PRODUCT DESCRIPTION:

Klere-treat WB is a water based, clear, breathable, penetrating sealer for concrete and masonry surfaces. Klere-treat WB penetrates the substrate and chemically bonds with silica to form a permanent water repellent molecule within the pores of the masonry. Klere-Treat WB chemically reacts to form a deep hydrophobic layer that prevents water and contaminants from entering the pores of the masonry surface and causing deterioration.

Klere-Treat WB has a small molecule which breaks the surface tension of the masonry surface allowing it to saturate through the moisture boundary layer. This deep and uniform saturation allows for a uniform gradient of permeation thus allowing a consistent level of protection and allows for longer surface protection against moisture.

APPLICATIONS:

- Parking garages
- Stadiums
- Bridge decks
- Above grade
- Ramps and barriers
- Cooling towers
- Buildings
- Exterior or interior
- Horizontal and vertical surfaces
- Concrete highway road surfaces
- Natural stone-bluestone-granite marble

SPECIAL FEATURES:

- Deep penetration
- Low VOC
- No chemical smell
- UV Resistance
- Excellent chloride ion resistance
- 100% moisture vapor transmission
- Keeps surface clean

LIMITATIONS:

Not intended for below grade waterproofing. Application Temperature should be 40°F. Allow for 12 hours dry before a rain. Do not apply on windy day. Allow surfaces to dry minimum 24 hours after a rain, or until surface is completely dry.

TECHNICAL DATA:

Color: White milky solution

Active ingredients: Alkylalkoxysilane, siloxane

Active content: 7%, or 14% formulas

Solvent carrier: Water Specific gravity: @77F 0.95

Penetration, average depth : 0.24mm
(depending on substrate)

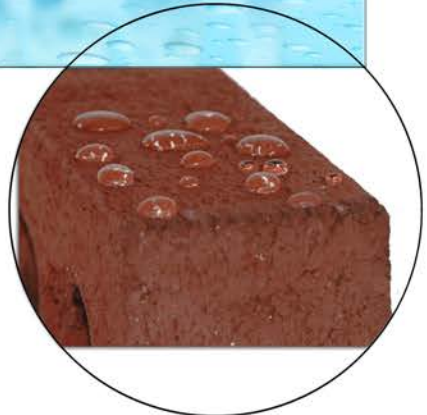
VOC content: < 250 grams per liter

COMPLIANCES: Alberta DOT, Type 1b

Flash point:>200 F

PACKAGING:

Available in:
1 gallon jugs
5 gallon pails
55 gallon drums
275 gallon totes



APPLICATION:

New concrete should be allowed to cure for 28 days. Concrete repair and replacement must be completed prior to the application of Klere-Treat WB. Patching materials, caulking compounds, must be fully cured before the application of Klere-Treat WB. New pointing mortar should cure for 24 hours. Concrete should be cleaned to remove dirt, dust, efflorescence, mold, mildew, salt, grease, gum, oil, asphalt, laitance, curing compounds, paints. Concrete should be prepared by shot blasting, or power washing with either AC-3 cleaner or Fabulene.

DIRECTIONS:

Klere-Treat WB should be applied by low pressure sprayer made specifically for the application of water repellents. **DO NOT APPLY TO WET OR DAMP SURFACES.** Do not dilute Klere-Treat WB. Use full strength as supplied. A test patch should be applied to the surface to determine and verify the correct coverage rate.

On horizontal surfaces the coverage rate should be 100 to 250 sq. ft per gallon. A 5'x 5' area should be tested. A wet soaking pattern should be applied. Do not apply on very windy days. If puddles develop spread the Klere-Treat WB with a paint roller. On vertical surfaces, spray from the bottom up so that a 6" rundown is achieved. Apply 2 coats wet on wet application.

CAUTION:

Klere-Treat WB does not contain any hazardous components, but care should be taken during the application by using respirator and eye goggles. Protect painted surfaces, glass, shrubbery and vegetation from overspray. Keep away from children. Avoid contact with skin, eyes, and clothing. Keep containers tightly closed. Do not take internally. Use impervious gloves. Use with adequate ventilation. See material safety data sheet and product label for full precautions and safe use and handling of the Klere-TreatWB.

WARRANTY

All Chargar products are of the highest quality and guaranteed free of defects. Due to the broad range of job conditions and methods of application a test panel should be applied to the jobsite to determine the suitability of this product for job requirements. No responsibility can be made beyond the purchase price.



SINCE 1950

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TEST DATA:		
Property	Results	Test Method
Water Absorption %		
48 hours	0.42	ASTM 642
50 days	1.2	ASTM C642
Scaling Resistance Rating		
	0- no scaling	ASTM C672
100 cycles treated concrete		
Resistance to chloride-ion Penetration lbs/yd(kg/m)		AAASHTO T259 & T260
Criteria of 1.5 at ½" (13mm)		<0.52(0.31)
Criteria of 0.75 at 1"(25mm)		0.00
Water weight gain		NCHRP 244 Series II cube test
% reduction	85-exceeds criteria	
Absorbed chloride		NCHRP 244 Series II-cube test
% reduction	87-exceeds criteria	
Absorbed chloride		Series IV southern climate
		99-exceeds criteria
Water repellent		Alberta Transportation & utilities Procedures-Type 1b
Performance %	Initial performance 89	
Test results are averages and obtained at a coverage rate ft ² per gallon under laboratory conditions.		

Additional Test Data:

ASTM G514 Water leakage of masonry after 2,500 hours of weathering:			
	Untreated leakage	Treated leakage	% Improvement
Concrete Block wall	12.6 l/hr	0.12 l/hr	99%
Brick Wall	2.2 l/hr	0.0 l/hr	100%

NCHRP #224 Series IV

Reduction in Chloride Ion: 85%

ASTM C642 Water Absorption of concrete:

24 Hours	0.65%
48 Hours	0.88%

ASTM C140 Concrete Masonry Units:

Absorption 24 hours submersion test:

89% effective in reducing water intrusion

ASTM C67 Sampling and testing brick & structural clay tile:

Part 7 absorption 24 hour immersion test:

91% effective in reducing moisture intrusion

ASTM D1653 Moisture vapor permeability of organic coatings:

70 grams/ft/24hours **95% Permeability**

ASTM C672 De-icer scaling of concrete:

Control after 60 cycles: 5

Klere-Treat after 60 cycles: 0+

Suggested Coverage Rates:

Common Brick	100-150 ft ² /gal.
Concrete Block	100-150 ft ² /gal.
Concrete Decks	150-200 ft ² /gal.
Natural Stone	100-250 ft ² /gal.
Stucco	150-200 ft ² /gal.

To determine actual absorption rate, a test sample should be made on surface to be sealed.