KlereSEAL® 910-W 920-W

Water-Based Penetrating Masonry Sealer

PECORA CORPORATION

SPECIFICATION DATA SHEET

BASIC USES

• KlereSeal® is used to protect horizontal and vertical surfaces of concrete, concrete unit masonry, clay brick masonry, clay tile masonry, natural and synthetic stone, and portland cement plaster (stucco), including sub substrates bonded with highly alkaline mortars, in the presence of atmospheric moisture.

MANUFACTURER

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PRODUCT DESCRIPTION

KlereSeal® 910-W and 920-W are VOC-compliant, amber-colored, liquid, surface-applied, solvent-free, blended, silane/siloxane water repellants. Supplied as a blended silane/siloxane concentrate and mixed at the recommended proportions with water, KlereSeal® 910-W and 920-W self-emulsify to form unique silicone microemulsions. KlereSeal® 910-W/920-W self-emulsifies to form a unique silicone microemulsion. They penetrate deeply into new or existing concrete and masonry substrates to react and chemically bond with the substrate to form an extremely durable water repellent.

The resulting hydrophobic barrier prevents the intrusion of water and water-borne salts into the structure thereby greatly reducing the damaging effects of moisture penetration into masonry and concrete such as corrosion of reinforcing bars, salt leaching and freeze-thaw cracking. KlereSeal® 910-W and 920-W also protect against staining and resist acids, alkalis and the effects of acid rain and carbon crusting.

The invisible barrier formed below the surface is permeable to water vapor. This allows the structure to breathe and prevents structural damage that could occur from trapped water.

Advantages: KlereSeal® 910-W and 920-W do not contain highly volatile organic carrier solvents. Hazards associated with explosion, and fire are greatly reduced.

Limitations: KlereSeal® 910-W/920-W is not suitable for applications to gypsum plaster or oil-based paint surfaces. It may not be suitable for some types of natural stone, e.g. pure limestone materials. Always test.

KlereSeal® 910-W/920-W will not compensate for structural or material defects. A slight darkening effect may be noticed on some surfaces depending on texture and porosity. This product is not designed for use on surfaces experiencing hydrostatic pressure.

PACKAGING

• 5 Gallon (18.9 L) pail.

COLOR

• Amber

TECHNICAL DATA

Consult Typical Physical Properties Chart.

INSTALLATION

Surface Preparation: Clean dirt, oil, and grease or other contaminants from the surface. Use appropriate

TYPICAL PHYSICAL PROPERTIES ESTIMATED COVERAGE RATES

SURFACE	Sq. Ft./Gallon
Concrete Block	60-80
Concrete Brick	80-120
Exposed Aggregate	100-150
Exterior Brick	100-150
Natural Stone - Rough (e.g. sandstone)	100-150
Natural Stone - Smooth (e.g. granite)	100-200
Porous Concrete	100-150
Smooth Concrete (precast)	125-175
Smooth Concrete (steel trowel finish)	150-200
Stucco	100-150

BLENDED SILANE/SILOXANE CONCENTRATE

TEST PROPERTY	VALUE	TEST PROCEDURE
Appearance	Yellow/Orange Liquid	Pecora Corporation
Flash Point ° F (° C)	77 (25)	ASTM D56
Refractive Index	1.42	ASTM D1747
Specific Gravity	1.02	ASTM D2320
VOC Content (g/L)	<325	ASTM D3960

DILUTED

PRODUCT	910-W	920-W	
TEST PROPERTY	VALUE	VALUE	TEST METHOD
Ratio: Gallons Concentrate : Gallons Water	0.5 : 4.5	1 : 4	Pecora Corporation
Depth of penetration average (inches)	-	0.1	NCHRP Report 244
H_2O Uptake (%)	0.3	0.15	Fed. Spec. SSW-110C
Reduction in leakage rate (%)	86	93	ASTM E514
Reduction in water weight gain (%)	88.14	96	
Reduction in chloride ion intrusion (%)	-	80	NCHRP Report 244
Scaling resistance (50 cycles)	0	0	ASTM C672
VOC Content (g/L)	<100	<100	ASTM D3960
Water vapor transmission (%)	-	83	ASTM D1653

Since Pecora Architectural Sealants are applied to varied substrates under diverse environmental conditions and construction situations it is recommended that substrate testing be conducted prior to application.

For the most up to date information, please visit our website at pecora.com.

cleaners (no raw acids) where necessary. Power rinse. Do not apply water repellent to surfaces that are wet to the touch. KlereSeal® 910-W and 920-W can be applied to damp surfaces however, best results are obtained on dry surfaces. Be sure all caulks or sealants are in place and fully cured.

Application: KlereSeal® 910-W and 920-W should not be applied at temperatures below 32˚ F (0˚ C), or when the temperature is expected to fall below 32˚ F (0˚ C) for 72 hours.

Add recommended volume of water to premeasured blended KlereSeal® concentrate. (See Typical Properties Chart for appropriate mix ratios). Mix until thoroughly blended in a container that will not rust. No induction time is necessary. KlereSeal® 910-W and 920-W should be applied within 48 hours after mixing or there will be no chemical reaction with the substrate. Apply with low pressure spray equipment (fan type spray tips are recommended) or with a brush or roller.

On vertical surfaces, apply in two successive wet-on-wet applications. On very dense architectural concrete and similar surfaces, it may be necessary to apply only one saturating application to avoid darkening. Working from the bottom up, apply uniformly water-repellant material to produce a six to eight inch run down from the contact point. Allow the first application to penetrate (about five (5) minutes) and reapply in the same saturating manner. Less water-repellent material will be required on the second application. When using a brush or roller, apply sufficient water-repellent material to thoroughly saturate the surface. Brush out heavy runs or drips.

On horizontal surfaces, apply in a single saturating application so the surface remains wet for a few minutes before penetrating. Broom out surface residues, pools and puddles until they completely penetrate.

Estimated Coverage Rates: Surface porosity and texture determine the amount of material necessary. For an estimating guide, see Typical Physical Properties Chart. Because the porosity of similar substrates varies greatly, Pecora is not responsible for any shortfalls or excess consumption based on these estimates. For precise rates of consumption, a pre-application field test should be performed.

Overspray: Do not spray in windy conditions. Protect adjoining glass, metal, painted surfaces and all other non-masonry surfaces, including landscaping, from overspray, wind drift and splashes. Remove inadvertent splashes using mineral spirits or diluted soap solution before the material has dried. KlereSeal® 910-W and 920-W bonds to glass and aluminum and may be difficult, if not impossible, to remove.

Clean Up: Thoroughly clean all equipment and clothing after use with either mineral spirits or water.

Shelf Life: Approximately one (1) year from the date of manufacture when stored in the original unopened containers at temperatures lower than 90˚ F (32˚ C).

Precautions: As supplied, the blended KlereSeal® 910-W/920-W concentrate is flammable. When diluted with water, it is no longer flammable. Do not store near heat, sparks or open flame. Do not smoke in the vicinity where the blended KlereSeal® 910-W/920-W concentrate is being mixed. Use in well ventilated areas. Methyl alcohol (methanol) is a hydrolysis byproduct of KlereSeal® 910-W and 920-W. Methyl alcohol is flammable and toxic. Where adequate ventilation is not available, use NIOSH approved organic vapor respirators with dust, mist and fume filter to reduce exposure. If inhaled, remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing.

Get medical attention. Consult Material Safety Data Sheet for additional information.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN

AVAILABILITY AND COST

Pecora products are available from stocking distributors nationwide. For the name and telephone number of your nearest representative, call the number below or visit our website at www.pecora.com.

WARRANTY

Pecora Corporation warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when used in strict accordance with our published recommendations and in applications considered by us as suitable for this product. The determination of eligibility for this warranty, or the choice of remedy available under this warranty, shall be made in our sole discretion and any decisions made by Pecora Corporation shall be final. This warranty is in lieu of any and all other warranties, expressed or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose and in no case will Pecora be liable for damages other than those expressly stated in this warranty, including but not limited to incidental or consequential damages.

MAINTENANCE

None required. Surfaces may be retreated at the end of service life.

TECHNICAL SERVICES

Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions or to conduct jobsite inspections. For further assistance call our Technical Service Department at 800-523-6688 or 215-723-6051.

FILING SYSTEMS

*CSI MasterFormat designations:
- 07 19 00 Water Repellents