



REMR MATERIAL DATA SHEET CM-SE-1,28

CONCRETE SEALER: KEIM LOTEXAN

1. NAME

Keim Lotexan

should be avoided. Eye protection and protective clothing should be worn.

2. MANUFACTURER

Mineros Industries, Inc.
505 West 211th Street
New York, NY 10034
Telephone: 212-304-1500

5. MANUFACTURER'S TECHNICAL DATA

The siloxane molecule is small and can easily penetrate even dense substrates such as concrete. It chemically reacts and bonds permanently to minerals in the substrate. However, unlike coatings, the protection can freely breathe.

3. DESCRIPTION

Eight percent siloxane in a hydrocarbon solvent.

Advantages:

Lotexan offers the following advantages:

4. USES & LIMITATIONS

Uses: Keim Lotexan can be used on all exterior above-grade surfaces such as concrete, masonry, brick, sandstone, limestone, concrete block, and stucco. Lotexan will effectively protect vertical and horizontal surfaces on buildings, monuments, parking garages, bridges, and other structures made with mineral-based materials. Surfaces treated with Lotexan resist efflorescence, freeze-thaw scaling, acid rain deterioration, mildew, and mold formation. Water and salt penetration into concrete are greatly reduced.

Limitations: Lotexan is a flammable liquid. Sources of ignition such as sparks or open flame should be avoided. Smoking shall not be allowed during application. Adequate ventilation should be provided to remove vapors during application. Inhalation

- Excellent water repellency.
- Excellent long-term beading effect.
- Resists salt penetration.
- Nonfilm forming.
- Free breathing.
- Deep penetration.
- Reduces surface staining and discoloration.
- Weather-resistant.
- Alkali-resistant.
- Retards efflorescence.
- Protects against acid rain.
- Protects against freeze-thaw scaling.

Packaging: 8- and 55-gal containers.

Technical data:

Composition	Oligomeric siloxane
Solids by weight	8%
Solvent	Mixed hydrocarbons
Water absorption (ASTM C 642)	87% effective
Vapor transmission rate	92%
Resistance to efflorescence	Excellent
Resistance to alkalinity	Excellent
Penetration of concrete	1/8 to 1/4 in.
Brick	1/8 to 1/2 in.
Block	1/2 to 1 in.
Surface appearance	Unchanged
Density	0.8
Appearance	Clear colorless liquid
Flash point	37° F

Warranty: Limited warranties for up to 10 years are available for specific jobs. Keim Mineral Coatings warrant that the Lotexan is a high-quality product that has been formulated and manufactured to precise standards. If the material is found defective, Keim will at its option replace the defective material or refund the purchase price, provided the buyer has examined the material upon receipt and promptly notified Keim of the defect before using the material. No other remedy, including but not limited to incidental and consequential damages, shall be available to the buyer.

Unless otherwise agreed to in writing prior to the start of any project, there exists no warranty beyond that described herein. Keim does not accept any liability for a particular method, use, application, or performance of the material, nor does Keim accept any liability for any intended use of the material. There are no other warranties expressed or implied including but not limited to warranties of merchantability and fitness for a particular purpose that extend beyond that described herein.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation: Surfaces to be treated shall be clean and sound. Surfaces should be cleaned using compatible Keim cleaning solutions. The surface shall be open to allow penetration of the Lotexan. All repairs such as patching and reporting shall be done prior to application.

Surfaces to be treated shall have dried at least 24 hr under good drying conditions prior to application. Ambient and surface temperatures shall be between 40° and 100° F. The product should not be applied if the surface is damp or rain is expected within 12 hr following the application.

Applications: Lotexan should be applied using low-pressure (15 psi) airless spray equipment. Brush and roller are also acceptable. The material shall be flooded on vertical surfaces such that a 4 to 6-in. rundown is obtained and on horizontal surfaces such that the surface has a glistening or wet look for at least 15 sec prior to the material being absorbed.

Coverage: Coverage rates will vary based on the porosity of the substrate and should be determined by actual field test application. The following are only estimated coverage rates in sq ft/gal:

Horizontal concrete	100-125
Vertical concrete	100-150
Brick	80-120
Concrete block	50-100
Stucco	80-120
Stone	80-120

On extremely porous substrates a second application that can be made wet on wet may be required to obtain satisfactory results.

7. CORPS OF ENGINEERS' EVALUATION

Physical and mechanical properties:

Percent solid
(ASTM D 1644, Method A): 7.6%

Keim primer 0.5%

Percent water absorption
(ambient temperature) (ASTM C 642):

	<u>Without primer</u>	<u>With primer</u>
1 day	0.16%	0.15%
2 days	0.22%	0.19%
4 days	0.33%	0.26%
7 days	0.49%	0.33%

Ratio of percent water absorption
for treated to nontreated specimen
(2-day submersion)

Without primer: 4.7%
With primer: 4.0%

Percent water transmission:

	<u>Without primer</u>	<u>With primer</u>
2 days	0.62%	0.40%
4 days	1.14%	0.46%
7 days	1.76%	0.97%

Ratio of percent water transmission
for treated to nontreated specimen
(7-day diffusion)

Without primer: 49.8%
With primer: 27.5%

Scaling resistance of coated concrete
surface (ASTM C 672, using water)

Rating after 50 cycles of freezing and
thawing--0 (no scaling)

8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the
preparation, repair, and cleanup
phases of sealant activities involving

potentially hazardous and toxic chemical substances. Manufacturer's recommendations to protect occupational health and environmental quality should be carefully followed. Material safety data sheets should be obtained from the manufacturers of such materials. In cases where the effects of a chemical substance on occupational health or environmental quality are unknown, chemical substances should be treated as potentially hazardous toxic materials.

9. AVAILABILITY & COST

Information concerning the availability and cost of Keim Lotexan can be obtained by writing the manufacturer at the address given in item 2 or calling 212-304-1500.

10. TECHNICAL SERVICE

Information on technical service can be obtained by writing the manufacturer at the address given in item 2 or calling 212-304-1500.