



REMR MATERIAL DATA SHEET CM-SE-1.4  
CONCRETE SEALER: DEKGUARD

## 1. NAME

Dekguard

## 2. MANUFACTURER

Preco Industries Ltd.  
55 Skyline Drive  
Plainview, NY 11803  
Telephone: 516-935-9100

## 3. DESCRIPTION

Silane (first coat), acrylic (second coat).

## 4. USES &amp; LIMITATIONS

Uses: Dekguard has been primarily designed to seal concrete slabs, decks, walls, or abutments from both water and chloride intrusion while providing for water vapor transmission (breathability).

The Dekguard system consists of a two-coat (synergistic) application process. The prime coat is an oligomeric alkoxy-silane that chemically bonds to the substrate by reacting with moisture either present in the substrate or in the atmosphere. The highly hydrophobic chemical molecules are extremely small (17 Å), resulting in penetration depths of 1/4 in. The top coat is a methyl methacrylate (acrylic) polymeric coating which cures to a breathing film that markedly reduces water absorption, but permits passage of interior water vapor. It is ultraviolet resistant, will not turn yellow, and provides a barrier to destructive carbonation.

Limitations: Dekguard should not be applied in direct sunlight when temperature is over 90° F. The prime coat should not be applied when air or surface temperature is below 15° F. The top coat of the Dekguard system should not be applied when air or surface temperature is below 40° F.

## 5. MANUFACTURER'S TECHNICAL DATA

<u>Physical Properties:</u>	<u>Dekguard System</u>
Water absorption resistance	
ASTM C 67 repellency rating	98% (min)
ASTM C 642 repellency rating	98% (min)
Chloride ion penetration Resistance	
AASHTO T 259	
Penetration reduction @ 1/2-in. depth*	90% (min)
Penetration reduction @ 1-in. depth*	90% (min)
Moisture vapor transmission Rate	
ASTM D 1653, grams per sq ft per 24 hr @ 77° F	15.55
Scaling resistance	
ASTM C 672, 50 cycles	No scaling
Freeze-thaw resistance	
NY State Test #216, 4% max. allowable weight loss	<1%
Accelerated weathering resistance	
ASTM E 239, 2,400 hr repellency rating	98% (min)

\* Compared with untreated concrete.

Efflorescence resistance  
Submersion in 10-percent sodium.  
Excellent sulfate solution

Packaging: 5-gal and 55-gal pails or drums.

Health and safety precautions: Contact with the skin must be avoided. Gloves and barrier creams should be used when handling these products. If contact with the product occurs, the skin should be washed immediately with soap and water (not solvent). A resin-removing cream should preferably be used. Eye contamination must be immediately washed with copious quantities of water and medical treatment sought. Working areas should be well ventilated.

#### 6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation: The substrate should be structurally sound and free of grease, oil, sealers, coatings, or other surface contaminants. Dekguard may be applied to damp surfaces provided no liquid water exists.

Application: Dekguard can be applied directly from the can, without thinning. The prime coat of the Dekguard system should be allowed to dry for at least 1/2 hr before the top coat is applied.

<u>Dekguard System</u>	<u>Application Coverage</u>
Prime coat	100 sq ft/gal
Top coat	200 sq ft/gal
Dekguard P-20	100-125 sq ft/gal
Dekguard P-40	100-125 sq ft/gal

The prime coat and top coat may be either spray or roller applied.

#### 7. CORPS OF ENGINEERS' EVALUATION

##### Physical and mechanical properties:

<u>Percent solid</u>	1st	2nd
(ASTM D 1644, Method A):	3.7	21.8

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

1 day	0.38%
2 days	0.53%
4 days	0.68%
7 days	0.82%

Ratio of percent water absorption for treated to nontreated specimen (2-day submersion): 11.2%

##### Percent water transmission:

2 days	0.64%
4 days	1.14%
7 days	2.38%

Ratio of percent water transmission for treated to nontreated specimen (7-day diffusion) 67.4%

#### 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 on distributors and cost is available from the manufacturer at the address given under item 2 or call 516-935-9100.

10. TECHNICAL SERVICE

For technical service, write to the manufacturer at the address given under item 2 or call 516-935-9100.