



## REMR MATERIAL DATA SHEET CM-SE-1.44 CONCRETE SEALER: THOROCLEAR SPECIAL

### 1. NAME

Thoroclear Special

### 2. MANUFACTURER

Thoro System Products, Inc.  
7800 N.W. 38th Street  
Miami, FL 33166  
Telephone: 305-592-2081

### 3. DESCRIPTION

Thoroclear Special is a clear, invisible, silicone-based, water repellent specially formulated for application on aged limestone and horizontal concrete surfaces.

### 4. USES & LIMITATIONS\*

Uses: For invisible protection of most limestones (slight darkening might occur on some limestones containing slate or iron; test panels are suggested), horizontal concrete surfaces, highways, bridge abutments, bridge decks, driveways and sidewalks.

The use of Thoroclear Special on horizontal concrete surfaces reduces freeze damage, improves visibility by preventing darkening of wet surfaces, and increases the life of the concrete. It is furnished in liquid form for application by brush or low-pressure spray.

Limitations: Do not use Thoroclear Special on brick, freshly quarried stone, or slate. Do not use aluminum equipment. Protect all surfaces not to be treated. Do not apply to frozen or frost-filled surfaces, or when temperature is below 40 °F (5 °C) or is expected to fall below 40 °F (5 °C) within 24 hr. Keep from freezing.

### 5. MANUFACTURER'S TECHNICAL DATA

For technical data, contact manufacturer at address provided in this material data sheet.

### 6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation: Limestone or other surfaces to be treated should be clean, sound, free of all impurities and stains, in good repair and flushed free of dirt and dust. New stone should age for one year before being sealed. Completely flood surface with one coat of Thoroclear Special until there is a 6- to 12- in. (15 to 30 cm) rundown. Application is to be made following manufacturer's instructions.

Packaging: 1-gal, 5-gal, 30- and 55-gal containers.

Coverage: 100 to 400 sq ft per gal; coverage varies with porosity of surface.

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\* Manufacturer's Catalog No. 17 4/85

7. CORPS OF ENGINEERS' EVALUATION  
(tested as concrete sealers only)

Physical and mechanical properties:

Percent solid  
(ASTM D 1644, Method A): 5.1%

Percent moisture absorption  
(ambient temp) (ASTM C 642-82):

1 day	3.46%
2 days	4.22%
4 days	4.30%
7 days	4.36%

Ratio of percent moisture absorption  
for treated to nontreated specimen  
(2-day submersion): 89.8%

Percent vapor transmittance (see REMR  
Technical Note CS-ES-1.8):

2 days	1.87%
4 days	2.39%
7 days	2.73%

Ratio of percent vapor transmittance  
for treated to nontreated specimen  
(2-day diffusion): 117%

8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, repair, and cleanup phases of 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 must 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.

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