



## REMR MATERIAL DATA SHEET CM-SE-1.43

### CONCRETE SEALER: THOROGLAZE H

#### 1. NAME

Thoroglaze H

- Extremely tough, durable, glossy film that expands and contracts with surface.

#### 2. MANUFACTURER

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

- Outstanding resistance to dirt collection and pollutants.
- Good bridging qualities over hair-line cracks and small openings.
- Excellent adhesion and binding qualities.

#### 3. DESCRIPTION

Thoroglaze H is a clear, non-yellowing acrylic sealer for concrete and masonry. Thoroglaze H is based on an all acrylic, methyl methacrylate copolymer.

- Coating is virtually unaffected by prolonged exposure to water, common acids, bases, aliphatic solvent, ultraviolet rays, and vegetable and petroleum greases and oils. Good resistance to urine.

#### 4. USES, ADVANTAGES & LIMITATIONS

Uses: Thoroglaze H is used to seal exposed aggregate and marblecrete panels. It provides the best possible protection for concrete, stops freeze-thaw aggregate pop-offs, and locks in aggregates with a clear, glossy protective film. Thoroglaze H provides an extremely durable, tough, glossy film for concrete, marblecrete, split rock, textured concrete or masonry. This film remains flexible and has excellent resistance to chemical fumes, lime and alkali.

- Keeps surfaces clean, thereby reducing maintenance.
- Brings out and heightens the natural color of stone and brick.

Limitations: Thoroglaze H is not recommended for sealing heavy-duty floors, floors exposed to underground water, new slate or quarry tile floors, glazed or very dense surfaces or over ceramics. Thoroglaze H is not to be applied over composition shingles, sidings or floorings. Do not use on lightweight block, brick or on-grade slate floors, patios and concrete slabs.

Advantages: Thoroglaze H offers the following advantages:

- Non-yellowing, will not discolor.

Do not apply to frozen or frost-filled surfaces or when temperature is below 50 °F (10 °C) or is expected to fall below 50 °F (10 °C) within 24 hr. Protect from freezing. Frozen material should be placed in a warm spot

to thaw. Do not force thawing by direct heat.

5. MANUFACTURER'S TECHNICAL DATA\*

Physical properties:

Appearance	Water clear
Percent solids	20
Viscosity, cp	25
Flash point	81 °F (closed cup)
Polymer molecular weight	Approx. 75,000
Tukon hardness of clear film	12-13
Durability	Non-yellowing, excellent resistance to UV degradation, highly resistant to alkaline degradation.
Composition	100% acrylic - methacrylate base

\* Technical Bulletin No. 27-D

Packaging: Four gal per case; 5-gal pails; 30-gal drums; and 55-gal drums.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Application: Thoroughly clean surface. Remove all dirt, waxes, defective paints or coatings, efflorescence, laitance and any foreign materials. Thoroglaze H is ready to use on most surfaces as it comes from the can. If some thinning is needed, dilute with naphtha or mineral

spirits. Do not use more than one pint per gallon. Apply a test patch to determine necessary adjustment in consistency. (A patch test of two coats is also recommended for painted surfaces.) Surface must be thoroughly clean and dry. It is not enough for just the visible surface to be dry. It must be dry throughout.

Apply by brush, roller or low pressure spray until surface is completely sealed. The number of coats needed depends on surface porosity; however, two coats are recommended. Allow about two hours between coats, but sufficient time for first coat to thoroughly dry. (Drying time will depend on climate conditions.) Clean up tools and spillage with naphtha or mineral spirits immediately upon completion. Do not apply if surfaces are frozen or frost filled.

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

Physical and mechanical properties:

Percent solid (ASTM D 1644, Method A): 23.3%

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

1 day	0.70%
2 days	1.27%
4 days	2.43%
7 days	4.18%

Ratio of percent moisture absorption for treated to nontreated specimen (2-day submersion): 27.0%

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

2 days	1.15%
4 days	1.86%
7 days	2.57%

Ratio of percent vapor transmittance for treated to nontreated specimen (2-day diffusion): 71.9%

## 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.