



REMR MATERIAL DATA SHEET CM-SE-1.34

CONCRETE SEALER: TBS-960

1. NAME

TBS-960

Shelf life: One year in unopened container

Solids: Type A - 40% by weight
Type B - 20% by weight

2. MANUFACTURER

Tremco
10701 Shaker Boulevard
Cleveland, OH 44104
Telephone: 216-292-5000

Solvents: Xylol/Cellulose Acetate
Cure time: 2 hr drying time; 12 hr ultimate cure

Flash point: 73 °F
Wt per gal: 8.0 lb
U.V. No yellowing after
Resistance: 500 hr exposure

3. DESCRIPTION

TBS-960 is a one-part moisture curing polyurethane.

No degradation per
ASTM C 23 75

Tensile strength: 3,100 psi
Elongation: 100%
Tear strength: 82 psi

4. USES & LIMITATIONS

Uses: TBS-960 is formulated to seal concrete surfaces to prevent spalling, dusting, scaling and efflorescence of the substrate. TBS-960 helps prevent damage to concrete caused by cycles of freezing and thawing, salt attack, and acid attack.

Packaging: Available in 5-gal containers or 55-gal drums.

Performance properties:

Properties	TBS-960 40% Solids	Untreated Control Sample
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Water absorption* (NCHRP #244, Series III)	0.48%	2.40%
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Chloride ion content (NCHRP #244, Series III)	0.045%	0.280%
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Limitations: TBS-960 is not to be used in submerged applications. It is not to be applied over previously sealed concrete or light-weight concrete without securing manufacturer's prior written approval. For applications below 40 °F, consult a Tremco sales representative.

Freeze-thaw resistance (ASTM C 672, 6% A/E Concrete)	0-1 Rating	3 Rating
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5. MANUFACTURER'S TECHNICAL DATA

Physical properties:

Color: Clear

	TBS-960	Untreated
<u>Properties</u>	<u>40% Solids</u>	<u>Control Sample</u>

Accelerated weathering chloride content (NCHRP #244, Series IV Southern Exposure)

.50%	0.525%
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Vapor transmission (% by weight of concrete) Does not inhibit water vapor transmission

* All tests conducted by Wiss, Janney & Elstner, Inc.

Warranty: Tremco warrants its products to be free of defects and manufactured to meet published physical properties when cured and tested according to ASTM and Tremco standards. Under this warranty, Tremco will provide, at no charge, product in containers to replace any product proved to be defective when applied in accordance with our written instructions and in applications recommended by us as suitable for this product.

All claims concerning product defects must be made within twelve months of shipment. Absence of such claims in writing during this period will constitute a waiver of all claims with respect of such product.

This warranty is in lieu of any and all other warranties expressed or implied.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation: All surfaces which are to receive TBS-960 Concrete Sealer must be free of dust and surface contaminants. Concrete surface must be dry. Sandblasting or acid

etching of concrete will increase the amount of penetration of the sealer.

Do not apply over previously sealed or treated concrete without securing manufacturer's prior written approval. New concrete must cure a minimum of 28 days prior to application. A light broom finish is recommended.

Application: TBS-960 can be applied by roller, spray or squeegee. Coverage rates vary with concrete surface finish and porosity but are approximately 150 to 300 sq ft per gal.

Caution: Vapors and spray mist are harmful! Use only with adequate ventilation. Exercise caution when spraying. Keep away from heat, sparks, and flame. Avoid contact with skin. Wash thoroughly after using. Guard against ingestion and contact with eyes. If ingested, call physician immediately.

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

Physical and mechanical properties:

Percent solid (ASTM D 1644, Method A): 44.5%

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

1 day	0.07%
2 days	0.15%
4 days	0.21%
7 days	0.28%

Ratio of percent moisture absorption for treated to nontreated specimen (2-day submersion): 3.2%

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

2 days	0.17%
4 days	0.39%
7 days	0.66%

Ratio of percent vapor transmittance
for treated to nontreated specimen
(2-day diffusion): 12.2%

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.