



## REMR MATERIAL DATA SHEET CM-SE-1.45

### CONCRETE SEALER: DOW CORNING 3-5035 (Supersedes previously issued CM-SE-1.45)

1. NAME  
DOW CORNING 3-5035
- Brookfield #4  
spindle, 2 rpm  
(ASTM D 1084B)  
Color White, Gray
2. MANUFACTURER  
Dow Corning Corp.  
Midland, MI 48640-0994  
Telephone: (517) 496-4000
- Typical physical properties of cured material:  
Cured at 23 °C for 1 week  
Durometer, Shore A (ASTM D 2240) 35  
Tensile, psi (ASTM D 412) 450  
Tensile, MPa 3.1  
Elongation, percent (ASTM D 412) 550  
Die "B" Tear, ppi (ASTM D 624) 80  
Die "B" Tear, KN/m 14
3. DESCRIPTION  
DOW CORNING® 3-5035 is a one-component, anionically stabilized, water-based silicone elastomer.
- This sealer offers the good weathering characteristics of other silicone coatings, and remains flexible from -50 (-45 °C) to 300 °F (149 °C).
4. APPLICABLE SPECIFICATIONS  
This coating passes Federal Specification TT-P-1411A.
- Fully cured, the elastomer also exhibits:
- Good resistance to hydrostatic pressure: On an 8- by 8- by 8-in. construction concrete block wall, the coating will withstand a 10-ft water head at an average rate of 1.5 gal/sq ft.
  - Good crack bridging: A 20-dry-mil coating will bridge cracks occurring in a concrete substrate up to 1/16 in.
5. USES  
This product is used as a protective coating for building materials.
6. MANUFACTURER'S TECHNICAL DATA  
Typical properties of uncured material:
- |                             |                              |
|-----------------------------|------------------------------|
| Solids, percent             | 44%, for 2 gm/l<br>hr/150 °C |
| Specific gravity            | 1.07                         |
| pH (ASTM E 70)              | 11.2                         |
| Viscosity at<br>77 °F (cps) | 25,000                       |
- Shelf life: Twelve months from date of shipment. Do not freeze emulsion. Store DOW CORNING 3-5035 elastomer at temperatures below 90 °F (32°C) and above 32 °F (0 °C).

Packaging: DOW CORNING 3-5035 elastomer is shipped in 1-gal sample sizes or 50-gal drums. Packages of other sizes will be considered upon request.

Warranty: Dow Corning warrants only that its products will meet its specifications. There is no warranty of merchantability or fitness for use nor any other express or implied warranty. The user's exclusive remedy and Dow Corning's sole liability are limited to refund on the purchase price or replacement of any product shown to be other than warranted. Dow Corning will not be liable for consequential damages of any kind.

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

Application: This emulsion can be applied by brush, roller, or conventional air atomization or airless spray equipment. Two coats should be applied. Apply the coats at right angles and in contrasting colors, to ensure complete coverage. Each coat should have a thickness of 20 to 25 wet mils. (This is roughly 1.5 to 2.0 gal/100 sq ft.) A minimum thickness of 15 dry mils is required for adequate waterproofing. Applying excess coating may result in surface cracking as the coating shrinks. Do not apply coating over dirty or unsound surfaces.

If spray equipment is used, flush the hoses with an organic solvent such as xylene or mineral spirits before using to remove any residual solvent-based coating. The hoses should then be flushed with soap and water until the odor of solvent cannot be detected. (Always provide adequate ventilation if solvents are volatile. Follow label directions to avoid overexposure.) Use tip sizes of 23 to 30 mils to attain maximum control of spray pattern during application.

As water evaporates, each layer of DOW CORNING 3-5035 elastomer cures in

approximately 2 hr at room temperature, lowering the humidity, and/or increasing the air flow. Do not apply the coating during inclement weather or when precipitation or frost appears likely.

Standard water-based colorants can be used to produce colored coatings.

Caution: Avoid contact with skin and eyes. In case of contact, flush skin and eyes with plenty of water. For eyes, get medical attention.

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

##### Physical and mechanical properties:

Percent solid  
(ASTM D 1644, Method A): 48.0%

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

1 day	0.36%
2 days	0.54%
4 days	0.95%
7 days	1.76%

Ratio of percent moisture absorption for treated to nontreated specimen (2-day submersion): 11.5%

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

2 days	1.15%
4 days	2.15%
7 days	2.76%

Ratio of percent vapor transmittance for treated to nontreated specimen (2-day diffusion): 67.0%

#### 9. 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.