



REMR MATERIAL DATA SHEET CM-SE-1.25
 CONCRETE SEALER: CLEAR CLADDING
 (Supersedes previously issued CM-SE-1.25)

1. NAME

Clear Cladding

30° C. Units should always be kept lidded in storage and should be stored and used away from flames or excessive heat.

2. MANUFACTURER

Belzona Molecular, Inc.
 100 Charles Lindbergh Blvd.
 CS100, Uniondale
 Long Island, NY 11553
 Telephone: (516) 542-1000

5. MANUFACTURER'S TECHNICAL DATA

Coverage rates:

<u>Substrate</u>	<u>Coverage Rate per litre</u>
Asbestos cement	4 sq m (43 sq ft)
Smooth concrete	4 sq m (43 sq ft)
Smooth brick	4 sq m (43 sq ft)
Natural stone	3.2 sq m (34 sq ft)
Soft brick	2 sq m (21 sq ft)
Rough concrete	2 sq m (21 sq ft)

3. DESCRIPTION

Siloxane.

Spray application:

Any conventional spray setup is suitable.

4. USES & LIMITATIONS

Uses: Clear Cladding is a colorless, solvent-based liquid that, when applied to any porous surface, precipitates a gel by reacting with carbon dioxide and the water already in the surface to form an invisible micro-porous water-repellent barrier. Applications involve external protection and preservation of all types of masonry surfaces above ground level, including brick, cement mortar, concrete, all types of stone, asbestos cement, artificial stone, and roughcast or pebble-dash finishes. Clear Cladding provides protection against the elements and atmospheric conditions, prevents dirt staining, and assists in preserving heat-insulating properties and in preventing efflorescence.

Drying times:

Depending on the porosity of the treated surface, at ambient temperature on an average surface the coating will dry within 2 hr. After 24 hr, the system will be highly water-repellent; after 12 days, maximum water resistance is obtained.

Breathing characteristics:

Clear Cladding renders a surface water-repellent but does not seal it; the water vapor permeability of the substrate is reduced, but the passage of air and water vapor is still allowed.

Limitations: Clear Cladding contains flammable solvents. The product has an Abel Closed Cup Flash Point of

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation:

All surfaces to be treated with Clear Cladding should be clean and as dry as possible to assist penetration. Old masonry surfaces should be thoroughly cleaned and all types of efflorescence or any other foreign matter efficiently removed. If fungicidal agents are used to kill or remove growth, these should be used, in accordance with the manufacturer's instructions, and the surface should be allowed to dry completely before application of Clearing Cladding.

Application:

Clear Cladding should be "flooded" on in sufficient quantities to result in a rundown of approximately 12 in. (30 cm). A long-bristled brush or spray can be used. This ensures complete coverage and penetration to a depth of 4 mm or more, dependent on the substrate. Care must be taken to avoid splashes, overspray, or runs onto adjacent decorative coatings and plastic materials, which may be softened or discolored after contact. Because Clear Cladding is transparent when dry, if there is to be an interruption in the work schedule, the area of treatment should be carefully marked so that no misses occur when the application continues.

Skin contact should be kept to a minimum. After unavoidable skin contact, affected areas should be washed with soap and water, and a lanolin-based cream rubbed on if necessary.

Splashing of eyes should be avoided since the liquid could cause extreme irritation. Affected eyes should be immediately washed with copious amounts of water or an eyewash. If damage is suspected, immediate medical attention should be sought.

When working in confined or poorly ventilated environments, the effects of continual inhalation may be significant and may produce dizziness, headaches, nausea, or eye irritation. Adequate ventilation must be provided at all times.

High standards of hygiene should be observed to avoid the possibility of ingestion. In the event of ingestion, medical attention should be sought immediately.

7. CORPS OF ENGINEER'S EVALUATION

Physical and mechanical properties:

Percent solid

(ASTM D 1644, Method A): 7.0%

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

	<u>One Coat</u>	<u>Two Coats</u>
1 day	1.00%	0.26%
2 days	3.01%	0.39%
4 days	5.24%	0.53%
7 days	5.48%	0.73%

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

One coat: 64.0%
Two coats: 8.3%

Percent water vapor transmittance:

	<u>Two Coats</u>
2 days	1.07
4 days	1.39
7 days	1.83

Ratio of percent water transmittance for treated to nontreated specimen (7-day diffusion):

Two coats: 51.8%

Scaling resistance of coated concrete
surface (ASTM C 672, water)

Rating after 50 cycles of freezing and
thawing:

Rating--3 Moderate scaling

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. TECHNICAL SERVICES

Call (516) 542-1000