



REMR MATERIAL DATA SHEET CM-SE-1.41

CONCRETE SEALER: MONOCRYL 50 (Supersedes previously issued CM-SE-1.41)

1. NAME

MONOCRYL 50

2. MANUFACTURER

United Coatings, Inc.
1130 East Sprague Avenue
Spokane, WA 99202
Telephone: (509) 926-7143

3. DESCRIPTION

MONOCRYL® 50 is a non-yellowing, clear acrylic copolymer.

4. USES, ADVANTAGES, & LIMITATIONS

Uses: MONOCRYL 50 imparts an effective watershed to stone, brick, marblecrete, exposed aggregate, block, smooth or textured concrete. It increases density and impermeability of the surface and reduces absorption of fumes and penetration of stains.

Advantages: MONOCRYL 50 remains permanently clear and uniform in appearance. Because of its penetration, water intrusion into the substrate is effectively diminished, thus stopping the spalling action created by cycles of freezing and thawing. The pure hydrophobic acrylic resins in a solvent solution reduce absorption of moisture into the pores of concrete and masonry. However, it allows existing moisture and efflorescent salts to percolate from new masonry or concrete while preventing additional

moisture intrusion from creating more efflorescence. It does not contain oxidizing ingredients that degrade rapidly, thus allowing moisture intrusion. It contains 12 percent solids by weight. It effectively protects surfaces from attack by airborne pollutants and has outstanding resistance to chemical fumes, acids, and alkalis. It can be applied at temperatures ranging from 30 to 90 °F. When properly applied to exterior walls, MONOCRYL 50 will last a minimum of 10 years with little sign of wear.

Limitations: It is not to be applied to damp or uncured surfaces and is not recommended for wood. Refer to label on container for proper application instructions. MONOCRYL 50 contains flammable solvents. Use it with adequate ventilation. Keep away from heat, spark, and open flame.

5. MANUFACTURER'S TECHNICAL DATA

For technical data, contact manufacturer at address listed above.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Coverage rates:

Brick (two coats).....150 sq ft/gal
Concrete floors
& slab.....125-150 sq ft/gal
Exposed aggregate.....100 sq ft/gal
Block (two coats).....60-75 sq ft/gal

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

Physical and mechanical properties:

Percent solid
(ASTM D 1644, Method A): 12.2%

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

1 day	0.34%
2 days	0.66%
4 days	0.98%
7 days	1.31%

Ratio of percent moisture absorption
for treated to nontreated specimen
(2-day submersion): 14.0%

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

2 days	1.70%
4 days	2.50%
7 days	3.07%

Ratio of percent vapor transmittance
for treated to nontreated specimen
(2-day diffusion): 78.9%

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.