



REMR MATERIAL DATA SHEET CM-SE-1.5

CONCRETE STAIN: DYMACRYL

1. NAME

Dymacryl

2. MANUFACTURER

Dampney Company, Inc.
85 Paris Street
Everett, MA 02149
Telephone: 617-389-2805

3. DESCRIPTION

Dymacryl Masonry Stains are based on a combination of 100-percent acrylic polymers and copolymers, color-stable inorganic pigments, and surface-penetrating agents.

4. USES & LIMITATIONS

Uses: Dymacryl Sierra Tone Masonry Stains are formulated to beautify, extend the life, and preserve the appearance of aboveground concrete and masonry.

Limitations: Dymacryl Stains contain xylol and are flammable. Keep away from heat, sparks, and flame. Use only with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing of vapor or spray mist.

5. MANUFACTURER'S TECHNICAL DATA

| | |
|---|---|
| Generic type | Methyl methacrylate-ethylacrylate copolymer |
| Colors | 10 standard colors plus clear |
| Finish | Flat |
| Number of components | One |
| % solids by volume | Colors--21; Clear--5.5 |
| Weight per gallon | 8.3 ± 0.2 lb |
| Viscosity | 55 - 60 K.U. |
| Temperature Resistance | |
| Continuous | 200° F |
| Intermittent | 250° F |
| Estimated coverage per coat (concrete): | 150 sq ft/gal |

Drying time: Dymacryl Stain sets dry to touch in 20 to 30 min and cures fully in 8 hr at 70° F and 50-percent relative humidity. Drying time will decrease at higher temperatures and increase at lower temperatures.

Recoat time: Recoat in 1 hr at 70° F (21° C).

Storage: Store in a cool dry place with temperature no lower than 50° F (10° C) or higher than 85° F (29° C).

| Application temperatures | <u>Normal</u> | <u>Minimum</u> | <u>Maximum</u> |
|------------------------------|-----------------|----------------|----------------|
| Ambient air | 60-90° F | 40° F | 120° F |
| Substrate | 65-85° F | 40° F | 120° F |
| Coating material | 65-85° F | 50° F | 85° F |
| Humidity | 50-80% | 10% | 90% |
| Drying time | <u>at 50° F</u> | <u>70° F</u> | <u>90° F</u> |
| To touch | 1 hr | 30 min | 15 min |
| To recoat | 2 hr | 1 hr | 30 min |
| Final cure | 8 hr at 70° F | | |
| Flash point (Pensky-Martens) | 83° F | | |
| Shelf life | 1 year | | |

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation:

Surfaces must be clean, dry, and free from dirt, dust, oil, grease, laitance, efflorescence, chalk, loose mortar, paint, or other foreign matter.

New construction: Allow new concrete and masonry to cure for 4 weeks under normal conditions before application of Dymacryl Masonry Stains. Allow additional drying time if surface has been wetted by rain in the past 3 or 4 days.

Remove salt deposits caused by efflorescence, laitance, and glaze. Follow with a final flush with clean water. Allow to dry thoroughly for at least 3 days under favorable conditions before application of Dymacryl stain.

Old construction: Previously applied paints or coatings should be completely removed by sandblasting. Follow by washing down with clean water to remove all dust and residues. Allow to dry thoroughly for at least 3 days under favorable conditions before application of Dymacryl Stain.

Mixing:

Mix all containers thoroughly before application. Mix each container the same length of time. Keep lid on container when not in use.

Application:

Dymacryl Masonry Stains are formulated for application by airless spray. A brush or roller can be used for small or confined areas, or where application would require extensive protection from overspray, provided that care is exercised not to exceed recommended coverage rates. Variations in coverage rates can result in variations in the finish color.

Dymacryl Masonry Stains should not be applied in rainy or foggy weather, nor within 3 days after surfaces have become wetted by rainfall. For best results, they should not be applied when surface, air, or material temperatures are below 40° F (10° C) or above 90° F (32° C). Also the relative humidity should not exceed 90 percent.

Application procedure: Dymacryl stain must be applied in two separate spray applications. The first application assures maximum penetration into the substrate. The second application assures maximum water repellency and color uniformity. The second application can be made as soon as the first application is dry to the touch, usually within 30 min to 1 hr.

Apply by the "crosshatch" method using alternate uniform horizontal strokes and uniform overlapping vertical strokes to provide an even appearance. Exercise care to prevent sags or runs.

Application rates: Application rates will vary depending upon porosity and texture of the substrate.

7. CORPS OF ENGINEERS' EVALUATION

Physical and mechanical properties:

Percent solid
(ASTM D 1644, Method A): 37.8%

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

| | |
|--------|-------|
| 1 day | 0.60% |
| 2 days | 0.92% |
| 4 days | 1.30% |
| 7 days | 1.84% |

Ratio of percent water absorption for treated to nontreated specimen (2-day submersion): 19.6%

Percent water transmission:

| | |
|--------|-------|
| 2 days | 0.46% |
| 4 days | 0.84% |
| 7 days | 1.29% |

Ratio of percent water transmission for treated to nontreated specimen (7-day diffusion): 36.5%

8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, application, and cleanup phases of staining activities involving potentially hazardous and toxic chemical substances. Manufacturer's recommendations to protect occupational health and environmental quality should be carefully followed. This product contains xylol, which is flammable. 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. AVAILABILITY & COST

Information concerning the availability and cost of Dymacryl can be obtained by writing the manufacturer at the address given in item 2 or calling 617-389-2805.

10. TECHNICAL SERVICE

Information on technical service can be obtained by writing the manufacturer at the address given in item 2 or by calling 617-389-2805.