



REMR MATERIAL DATA SHEET CM-SE-1.29
 CONCRETE SEALER: LD-12 MASONRY AND
 CONCRETE PRIMER/SEALER

1. NAME

LD-12
 Masonry and Concrete Primer/Sealer

2. MANUFACTURER

Weathertite Sealers
 Products of A & F Enterprises
 22 Grosvenor Road
 Needham, MA 02192
 Telephone: 617-444-0909

3. DESCRIPTION

Butyrate polymers dissolved in selected solvents.

4. USES

LD-12 Masonry and Concrete Primer/Sealer is a nonyellowing, single-component, penetrating, breathable masonry and concrete waterproofing sealer that is especially formulated for deeper penetration and absorption by denser, closed-pore masonry, concrete, stone, and tile. It provides lightweight, weathertight protection. Deeper penetration into closed-pore surfaces establishes excellent basecoat for other more viscous Weathertite products to bond and adhere to.

This sealer offers vertical and horizontal surface protection for both interior and exterior and can be used as a prime or basecoat, particularly on water-struck brick, precast concrete, steel troweled concrete, quarry tile, and nonferrous metals. It may be used alone or where more protection

is desired in conjunction with specific other heavier duty, more viscous Weathertite Sealers. The system in turn produces a highly weathertight, flexible seal with the ability to fill a variety of cracks, crevices, and open pores otherwise exposed to moisture penetration. It eliminates spalling, flaking, chipping, and mortar deterioration due to water penetration in conjunction with cycles of freezing and thawing.

5. MANUFACTURER'S TECHNICAL DATA

Solids content: 12% by weight

Weight per gallon: 7.3 ± 0.1 lb

Shelf life: Unopened containers may be stored up to 4 years. Storage temperature should be 45° F or higher. Properly resealed containers have approximately a 2- to 3-year lifespan. Store away from open flame.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Surface preparation: Surfaces to be sealed must be dry and free of rain or other moisture for approximately 48 to 72 hr, depending on ambient temperature and humidity level, prior to application. Ambient and surface temperatures should be 50° F or higher

with the relative humidity level no higher than 65 percent.

Application: To assure uniform finish, mix thoroughly at low speed. Do not alter or dilute product in any way. Chemical imbalance of the butyrate polymer may develop, which will result in rapid deterioration of the cured and liquid product.

For vertical surfaces, apply uniform, even application and avoid rundown. Best results are achieved when applied with airless spray equipment or a brush. The airless sprayer orifice opening should range between 0.015 and 0.020 in. Pump pressure should be approximately 1,200 psi, and pump ratio should be 10:1. A representative should be consulted regarding any alternative application methods.

Newly constructed or recently repointed masonry walls must be allowed to properly cure a minimum of 48 to 72 hr depending upon atmospheric conditions. Trace mortar must be thoroughly cleaned from surfaces. Loose powdery surfaces or heavily soiled surfaces should be thoroughly cleaned, when necessary, with a light acid wash or sandblasting (preferably a wet sandblast). If acid washing is employed, it is advisable to neutralize all acids before proceeding.

For horizontal surfaces, puddling should be avoided. Best results are achieved when applied with a thick nap roller. Thin spots and holidays by whatever technique must be avoided. New concrete on grade should cure approximately 18 to 21 days. Wax curing agents must be removed. Older surfaces should, at a minimum, be broom swept or vacuumed. To assure proper penetration or bond on older surfaces, contaminants and laitance should be removed by any of the following methods: sandblasting, steam cleaning, chemical washing, or acid washing. When sandblasting, all powdered debris should be removed. Liquid

cleaning methods must be followed by thoroughly rinsing and then allowing the surface to completely dry.

Coverage: Spread rate will vary because of surface porosity, application method, and surface texture.

<u>Surface</u>	<u>Coverage, sq ft/gal</u>
Water-struck brick, quarry tile, steel-troweled concrete	250-300
Sand-struck brick or broom-finished concrete	230-250

Limitations: Do not apply when rain, dew, fog, frost, or snow, all of which will adversely affect proper curing, may develop within approximately 8 to 12 hr of application at 50° F.

7. CORPS OF ENGINEER'S EVALUATION

Physical and mechanical properties:

Percent solid
(ASTM D 1644, Method A): 11.6%

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

1 day	0.64
2 days	0.85
4 days	1.07
7 days	1.24

Ratio of percent moisture absorption for treated to nontreated specimen
(2-day submersion): 18.3%

Percent vapor transmittance:

2 days	1.05
4 days	1.51
7 days	2.02

Ratio of percent vapor transmittance for treated to nontreated specimen
(2-day diffusion): 39.0%

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 SERVICE

Call 617-444-0909.