



Underseal® CRM™

PRODUCT OVERVIEW

Underseal® CRM™ - Chemical Resistant Membrane - is a strong, 85-mil, robust pre-applied membrane that has been designed and tested to withstand elevated concentrations of soil, water and vapor contaminants. When installed below the slab and behind vertical walls, Underseal® CRM™ creates a barrier preventing water & vapor from transmitting into the structure.

Underseal® CRM™ provides a continuous seal underneath the concrete slab and behind vertical “blindsides” cast in place concrete walls. A strong mechanical bond is developed between the membrane and concrete at the time of pouring as the concrete intermingles with the fibers of the nonwoven geotextile fabric. Underseal® CRM™ is typically installed horizontally over a prepared subbase such as compacted soil, mud slab or #57 stone. It can also be used in vertical applications.

- Lasting Durability: Tough 3-layer composite membrane - Technology that has stood the test of time.
- Outstanding Puncture Resistance: 2 times higher than the new AC 527 requirement - Better protection against backfill damage.
- Strong Mechanical Bond: Our inner fibrous layer embeds itself into the cured concrete creating a very strong mechanical bond - ensures our waterproofing system staying in place.
- Resistant to Water Migration: An adhesive bond is created when heat from the concrete slab while curing, causes our compound to melt onto the concrete's positive side surface creating a continuous sealed structure.
- Jobsite Adaptability: Flexible material that adapts to job site irregularities for ease of installation.
- Superior Joints: Strong laps seams create a long lasting, water tight system - Outperforms the new AC 527 standard (ASTM 1876) by more than 150%.
- Crack Protection: Underslab is thicker than most competitive products giving it stress-absorbing and elongation properties that maintain a watertight seal if cracks develop in the base material or the slab.
- Helps Manage Harmful Gases : Acts as a barrier against toxic contaminants methane and radon gas, which may attempt to enter the structure through cracks in the concrete.

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| Property | Test Method | Typical Value |
|--|--|--|
| Film Color | | Black/Silver |
| Membrane Thickness | ASTM D 1000 | 85 mils |
| Tensile Strength of 1" Width | ASTM D 4632 | 440 lbs. |
| Hydraulic Transmissivity of a Geosynthetic Using a Constant Head | ASTM D 4716 | No measurable flow |
| (In-plane) Hydraulic Transmissivity of a Geosynthetic by Radial Flow | ASTM D 6574 | No water flow |
| breaking strength of 1" width sample | ASTM D 882 | 14,220 PSI |
| Elongation - Ultimate failure of Rubberized asphalt | ASTM D 412 | 839% |
| Permeance to Water Vapor Transmission | ASTM E 96 Method B | 0.02 Perms |
| Crack Cycling | ASTM C 836 Tested @ -15°F | No effect |
| Peel Adhesion to Concrete | ASTM D 903 | 31.3 lbs./in. |
| Lap Peel Adhesion | ASTM D 1876 | 8.7 lbs./in. |
| Low Temperature Flexibility | ASTM D 1970 180° bend over 1" mandrel at -20°F (-29°C) | No effect |
| Puncture Resistance (minimum) | ASTM E 154 | 256 lbs. |
| Resistance to Hydrostatic head (minimum) | ASTM D 5385 | 231 ft. |
| Exposure to Soil Fungi | GSA-PBS 07115 (16 weeks) | No effect |
| Resistance to Permeance by Methane Gas | ASTM D 1434 tested using 99.99% purity | $< 5 \times 10^{-16} \text{ mol/m}^2 \cdot \text{s} \cdot \text{Pa}$ |
| Resistance to Radioactive Radon Gas | Radon Reduction Technology Laboratory % reduction in radon gas diffusion | 97.10% |
| Water Absorption (maximum) | ASTM D 570 | 0.1% |

Companion Products



Underseal®
Fabric Tape



CR™
Seam Tape



Ultra
CRM™



CR™ Liquid
Membrane



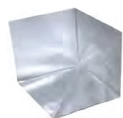
CR™
Sealant



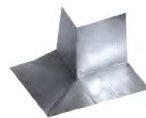
Polyflow®
15



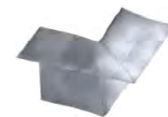
Polyflow®
18



CR™ Inside
Corner Boot



CR™ Outside
Corner Boot



CR™ Pit Top
Corner Boot

REV071024