



Using ENESEAL® CR

The Leak Repair Polymer Composite / Cures in Minutes.

PLEASE READ THESE INSTRUCTIONS AND SAFETY DATA SHEET (SDS) CAREFULLY PRIOR TO USE

ENESEAL® CR is a single component, water based, liquid coating which dries to a highly durable, seamless, weather resistant, corrosion resistant, elastomeric 'skin' that provides extraordinary environmental protection to metal and concrete / masonry surfaces. It can also be applied as a top coat over most zinc primers and is also available in 'safety yellow'.

ENESEAL® CR is a 'surface tolerant' coating system that does not require abrasive blasting. It exhibits excellent adhesion to all types of ferrous metal as well as galvanized surfaces. Mechanical wire brushing, grinding or high pressure water blasting is typically acceptable to achieve good adhesion.

ENESEAL® CR incorporates a unique blend of corrosion inhibitors, UV resistant resins and pigments, erosion resistant inorganic fillers and elastomeric acrylic polymers in order to provide outstanding performance in all types of demanding industrial and marine environments. Easily applied by brush, roller or spray, ENESEAL® CR cleans up quickly and easily with just soap and water. minimum of two coats are recommended for most applications.

SURFACE PREPARATION

ENESEAL® CR should only be applied to clean, dry and structurally sound surfaces. Surfaces should be free of any loose material and all contaminants such as dirt, oil, grease, salt, loose or flaking paint, etc.

...for metal surfaces

While abrasive blasting is not necessary, all areas to be treated should be manually prepared to SSPC SP-2 or SP-3 by grinding, rotary wire brushing or other appropriate means to remove loose rust, scale, or previously applied coatings. Alternatively, high pressure water jetting in accordance with SSPC SP-12 to a minimum visual condition of WJ-4 has been found very effective on large areas to achieve the desired surface prior to application.

...for cementitious surfaces

High pressure water jetting or light abrasive blasting have generally been found to be the most effective means of removing loose material and the typically weak surface layer often encountered when preparing concrete / mineral substrates.

MIXING

ENESEAL® CR is a one component product which should be stirred slowly prior to application in order to blend in any slight separation. Thinning of ENESEAL® CR with water or solvent is not recommended.

APPLICATION

ENESEAL CR should not be applied to surfaces exceeding 140°F / 60°C. Surfaces being coated should first be cooled prior to application of the ENESEAL CR. ENESEAL® CR should only be applied when the temperature is above 45° F / 7° C and when the relative humidity is below 85%. Surfaces being treated should be at least 5° F / 3° C above the dew point.

ENESEAL® CR may be applied by brush, roller or spray. The material should be applied at a wet film thickness of approximately 12 - 14 mils (300 - 350 microns) to achieve the desired dry film thickness of 7 - 8 mils (175 - 200 microns) per coat. A minimum of two coats are recommended for most applications.

Technical Data

Unit size	20 kg / 8 kg
Color	White, Light Gray, Green, Brown, Safety Yellow
Finish	Satin
Volume Solids	58%
Vehicle Type	Water based elastomeric acrylic polymer.
Recommended Film Thickness	12-14 mils WFT per coat. 7-8 mils DFT per coat.
Coverage Rate	Approx. 500 sq. ft. per 20 kg unit per coat @ 12 mils WFT based on a smooth substrate. Rough substrates will reduce coverage.
Shelf Life	3 years in an unopened container. Do not allow to freeze.
Overcoating	4 hours minimum (16+ hours optimum)
Rain Resistant	4 hours minimum (77° F / 25° C)
Elongation	300% (ASTM D-2370)
Accelerated Weathering	1,000 hours (12 hour cycle) QUV Weather-O-Meter. No changes in appearance.
Salt Fog Resistance	2,000 hours No blistering. No delamination.
Tape Adhesion	5A (ASTM D-3359 Method A) Wire-brushed steel substrate.
Direct Tensile Adhesion	850 psi (ASTM D-4541) Wire-brushed steel. 900 psi (ASTM D-4541) Galvanized steel.
Water Vapor Transmission	1.14g/h·m² (ASTM E-96)
Spraying	Airless spray. Minimum pressure: 2,500 psi Tip orifice: 0.013 to 0.043

HEALTH & SAFETY

Every effort is made to insure that ENECON® products are as simple and safe to use as possible. Normal industry standards and practices for housekeeping, cleanliness and personal protection should be observed. For further information and guidance, please refer to the detailed MATERIAL SAFETY DATA SHEETS (MSDS) supplied with the material and also available on request.

CLEANING EQUIPMENT

Wipe excess material from tools and equipment immediately. Use soap and water as needed.

TECHNICAL SUPPORT

The ENECON® engineering team is always available to provide technical support and assistance. For guidance on difficult application procedures or for answers to simple questions, call your local ENECON® Fluid Flow Systems Specialist or the ENECON® Engineering Center.

All information contained herein is based on long term testing in our laboratories as well as practical field experience and is believed to be reliable and accurate. No condition or warranty is given covering the results from use of our products in any particular case, whether the purpose is disclosed or not, and we cannot accept liability if the desired results are not obtained.

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