

*Revolutionary products . . .*

*. . . for rebuilding, resurfacing and protecting all types of fluid flow machinery, equipment and structures.*

# ENESEAL® HR

ENESEAL® HR

UV Resistant  
Heat Refractive  
Water Based  
Moisture Resistant  
Non Toxic  
Non Flammable

## The Energy Saver - and More!

Ceramic - filled, liquid membrane which dries to a durable, seamless, moisture resistant, flexible skin.

ENESEAL® HR is a single component, water based, liquid ceramic-filled membrane which dries to a durable, seamless, flexible "skin" that refracts and reflects heat while providing a moisture resistant barrier to virtually any type of surface... i.e., all types of insulation, plastics, concrete, brick, block, slate, tiles, wood, metal, etc.

ENESEAL® HR is easily applied by brush, roller or spray. Because it's water based, cleanup is quick and easy with soap and water. Completely non-toxic and non-flammable.

- **Metal decks**
- **Roofs**
- **Trailers**
- **Sheds**
- **Mobil homes**
- **Pre-fab buildings**
- **Pipes**
- **Ducts**
- **Tanks**
- **Insulation encapsulation**
- **Cooling towers**



**ENECON** Corporation  
The Fluid Flow  
Systems Specialists.

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ENESEAL® HR

<b>Technical Data</b>	
<b>Unit size</b>	15 liters
<b>Color</b>	White
<b>Finish</b>	Eggshell (flat)
<b>Volume Solids</b>	56%
<b>Vehicle Type</b>	Water based vinyl terpolymer matrix
<b>Shelf Life</b>	2 years (some settling may occur - mix before use). Store between 41°F/5°C and 95°F/35°C
<b>Drying Time</b> before placing	Typically 1 hour under normal ambient conditions. Allow 24 hours components/equipment back in service. Full chemical cure 21 days.
<b>Overcoating</b>	Additional coat(s) may be applied after 2 hours under normal ambient conditions.
<b>Coverage Rate</b>	35 - 40 ft <sup>2</sup> (3.3 - 3.7 m <sup>2</sup> ) per liter per coat. Coverage rates will vary depending on the type of substrate, surface porosity, texture, etc.
<b>Application Thickness</b>	6 mils dry film thickness (DFT) per coat... two coats recommended.
<b>Primer</b>	CHEMCLAD® SC (for unpainted ferrous metals)
<b>Thinning</b>	Use warm water (do not exceed 5% of total volume).
<b>Spraying</b>	Airless spray equipment producing at least 4 liters/minute (1gallon/minute). Abrasion resistant tips... sizes .031 in./ .787 mm or 0.37 in./ .94 mm.

Your Local ENECON® Fluid Flow Systems Specialist

## Using ENESEAL® HR

**Surface Preparation** - ENESEAL® HR should only be applied to clean, dry and structurally sound surfaces. Concrete, brick, block or other masonry or cementitious surfaces must be free of efflorescence. Any contaminants, such as oil, must be removed by pressure washing, steam cleaning, solvent cleaning, etc. Any existing coatings must be sound and well bonded to the substrate. Loose or flaking coatings must be removed by rotary wire brushing, abrasive blasting, grinding or other suitable means. All rust must be removed.

**Priming Unpainted Ferrous Metal Surfaces** - Prior to applying ENESEAL® HR to unpainted ferrous metal surfaces, these areas should be first primed with CHEMCLAD® SC to prevent rust bleed through the water-based ENESEAL® HR. CHEMCLAD® SC is a two-component 100% solids (solvent-free) system. After thoroughly mixing the Base & Activator, apply CHEMCLAD® SC by brush or roller to cover all exposed (unpainted) ferrous metal surfaces to which ENESEAL® HR will ultimately be applied. The working life of the mixed CHEMCLAD® SC is 70 minutes at 77°F/25°C. One coat of CHEMCLAD® SC is usually adequate. A typical coverage rate of 50 - 55 ft<sup>2</sup> (5m<sup>2</sup>) per kg. @ 6 - 7mils is recommended.

Please note: coverage will be reduced on excessively rough and/or pitted surfaces. ENESEAL® HR may be applied over the CHEMCLAD® SC when the CHEMCLAD® SC is tack-free, usually within 12 hours at about 77°F/25°C. If two coats of CHEMCLAD® SC are to be applied, the maximum overcoating time for the second coat is 24 hours at 77°F/25°C. When mixing less than full units of CHEMCLAD® SC, the mixing ratio by volume is 5 parts Base to 2 parts Activator; by weight the mixing ratio is 3.4 parts Base to 1 part Activator. CHEMCLAD® SC has an indefinite shelf life.

**Application** - ENESEAL® HR is a water based system and, therefore, must not be applied when freezing conditions exist or are expected within 24 hours of the application. Do not apply ENESEAL® HR if rain or snow is expected within 24 hours of the application.

Applications onto hot surfaces, i.e., steam pipes or ducts, must not exceed 140° F/60°C. Equipment should first be cooled prior to the application of the ENESEAL® HR. Once the ENESEAL® HR has cured for 24 hours it can withstand dry heat temperatures of up to 395°C F/200° C.

Applications to newly tarred or to petroleum based materials/substrates must not be carried out until the material has fully cured - - usually 2-3 months. New concrete must be allowed to cure for at least 21 days before treating with the ENESEAL® HR system.

**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 of 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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