



# Coating Holdings LTD

---

1137 W Fond du Lac St  
Ripon WI 54971

## OR80HA

### Product Description

-low viscosity, two component polyurea coating  
-high performance coating has excellent thermal properties and cures to an extremely tough, chemical and abrasion resistant coating.

### Primary Applications

OR80HA adheres well to several substrates.

Typical applications:

- coating concrete for containment
- metals
- foams
- geotextiles for various applications

### Typical Physical Properties

Hardness (Shore A)	ASTM D-1737	86
Tensile Strength (Psi)	ASTM D-412	2100
Elongation (%)	ASTM D-412	300
Tear Strength (pli)	ASTM D-624	300
D470 Tear		95

### Typical Processing Properties

A side hose temp (°F)	150-170
B side hose temp (°F)	150-170
Viscosity A side (cps) 70F	1800
Viscosity B side (cps) 70F	800
Mix Ratio by volume	1:1
Gel Time (seconds)	10-15
Tack Free Time (seconds)	<45

\*Note: This data is based on laboratory tests,  
Application conditions and methods may affect these values.

4/08



# Coating Holdings LTD

---

1137 W Fond du Lac St  
Ripon WI 54971

## Application Equipment

## OR80HA

This material must be applied using a pressure plural component pump such as GlasCraft Super Maxi equipped with a Probler gun or equivalent. The proportioning unit must be capable of supplying the correct pressure and heat for the required hose length on a consistent basis.

## Installation Recommendations

Substrate surfaces should be free of loose particles, rusts, voids and spills. Chloride, moisture and pH levels should be checked prior to application. Always agitate the B side before using.

## Concrete

Old concrete- Sandblasting, shot blasting or water blasting is highly recommended to remove surface contaminants. Any oils or fats must be removed prior to product application. Acid etching may be required ( followed by a thorough rinsing) to open the pores of the concrete to accept a primer. A minimum coating of 40 mils of OR80HA is generally recommended for minimum chemical and abrasion resistance.

## New Concrete

The concrete should be allowed to cure for a minimum of 30 days. Shot blasting, sand blasting or acid etching is required to remove the surface lattice that appeared during the curing process. Primer should be used to reduce out gassing.

## Carbon Steel

The steel must be prepared to a near white metal that is equivalent to SSPC-ISO or NACE 2. For immersion service, a 3 mil blast profile is recommended. A 2 mil profile is generally accepted. A 40-200 mil thickness of OR80HA is generally recommended. This is dependant on the wear and tear of the substrate that it is applied to.

## Substrate Repairs

All spalls and cracks should be repaired to ICRI standards. Expansion joints should be honored. Horizontal control joints can be filled with ORCF prior to the application of OR80HA.

**Primer Requirements-** ORPR211 Primer, or TC-PA

**Top Coating-** ORSPAL, OR55AL

**Packaging-** OR80HA comes in 5 gallon pails, 55 gallon drums or 275 gallon totes

**Shelf Life and Storage-** Six months in factory delivered unopened drums. Keep away from extreme heat, cold and moisture. Maintain at a proper storage temperature of 32-100°F

**Shipping info-** OR90HA can be shipped via commercial truck lines, class 55



# Coating Holdings LTD

---

1137 W Fond du Lac St  
Ripon WI 54971

## Coverage Calculations

<u>Coating Thickness</u>	<u>Sq.Ft/gal</u>
20 mils	70
30 mils	48
40 mils	36
50 mils	29
60 mils	24
80 mils	18
100 mils	14
250 mils	5.5

## Adhesion Results

ASTM D-4541 Elcometer

Concrete(no primer)	850 psi-concrete failure
Concrete(epoxy)	250 psi-concrete failure
Steel (no primer)	1200 psi-substrate failure
Steel (epoxy)	800 psi-primer failure
Wood (no primer)	350 psi-delamination

## Warranty

The technical data and any other printed information furnished by ORPC is true and accurate to the best of our knowledge. OR80HA conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. ORPC makes no warranty expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

---

**Specializing in Spray Application Equipment, Polyurethane/Polyurea Protective Coating /Foam Insulation**

Telephone: 920-748-3085

800-625-9577

Fax: 920-748-3369