



QuakeBond™ 401HCR

Description

QuakeBond™ 401HCR is a high-quality epoxy novolac coating system with chemical resistance. This tightly crosslinked system cures in the presence of moisture and humidity with excellent mechanical properties. It contains no solvents (100% solids, zero VOC) and has minimal odor and toxicity.

Uses

- Tank linings
- Chemical resistant coating
- Can be used as saturant for QuakeWrap® fabrics

Advantages

- Zero VOC
- Minimal Odor and Toxicity
- Viscosity is well suited for vertical applications

Product Data

Color - Resin	Grey
Color - Hardener	Orange
Color - Mixed	Grey
Viscosity - Resin	12,000 cps
Viscosity - Hardener	200 cps
Viscosity - Mixed	1,400 cps
Density (SG) - Resin	10.4 (1.25)
Density (SG) - Hardener	8.7 (1.05)
Density (SG) - Mixed	9.9 (1.19)
Mix Ratio / Weight	100 to 42
Mix Ratio / Volume	2 to 1
Work Life	15 minutes
Gel Time	25 minutes
Cure - 25°C Light Traffic	24 hours
Cure - 25°C Full Cure	7 days

Physical Properties (Cured System)

Compressive (psi)	12,000 - 14,000
Flexural (psi)	13,000 - 13,800
Tensile (psi)	7,000 - 8,000
Elongation (%)	3.2
Water Absorption (%)	<1
Shore D Hardness	85

Chemical Resistance Guide - % Weight Gain

Xylene	0.06%
Toluene	0.15%
MEK	12.28%
EB	0.45%
Ethanol	1.67%
Water	0.66%
5% Detergent	0.67%
10% NaOH	0.52%
50% NaOH	0.00%
10% H2SO4	0.87%
70% H2SO4	0.01%
10% HCL	0.66%
5% Acetic Acid	2.20%
10% Acetic Acid	3.96%

(3-week Immersion)

Coverage

Applied at a thickness of 20 mils results in 80 ft² per gallon. Rough and uneven surfaces result in lower yields.

Packaging

- 3-gallon kits
- 15-gallon kits
- 165-gallon drum kit (yields 156 gallons)

Application Equipment

Paint roller with ¼" nap. Use only naps which are approved for use with epoxies.

The Infrastructure Innovators

QuakeWrap.com

QuakeWrap, Inc.
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Tucson, AZ 85756

Toll Free (866) QUAKEWRAP [782-5397]

QuakeWrap, Inc. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. QUAKEWRAP, INC. SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.



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Surface Preparation

Substrate surfaces must be structurally sound and free from contaminants such as dust, oil, and dirt. Surfaces must be shot blasted, abrasively ground, hydro-blasted or mechanically abraded to achieve required surface profile. Freestanding water must be removed.

Steel: *Immersion Service:* SSPC-SP10 Near White Blast Cleaning with 3.0 mil profile

Non-Immersion Service: SSPC-SP6 - Commercial Blast Cleaning with 2.0 mil profile.

Mixing

Thorough and complete mixing is critical; a jiffy mixer is recommended. First mix each component separately. Proportion each component at the appropriate ratio by weight (A:B ratio of 100:42). Pour the hardener (Part B) into the Resin (Part A) and mix at 400-600 RPM for 3-5 minutes. Use an up and down motion, scraping the mixing container sides and bottom. Mix no more material than may be applied in 15 minutes.

Application

Application procedures specified in ACI 503. 1-4.
Consult with QuakeWrap® engineer

Cleanup

Collect with absorbent material, flush with water. Clean up using Acetone or other Ketone solvent. Dispose waste in accordance with local disposal regulation. Cured materials can only be removed mechanically.

Shelf Life & Storage

Store product in original container in a dry location for up to 12 months at 77°F (25°C).

Liquids should be stored at 45°F - 90°F (7°C - 32°C).

Limitations

Do not apply to concrete still in the curing process.

Do not apply to substrates at a temperature less than 50°F (10°C).

First Aid

Appropriate Personal Protective Equipment (PPE) should be worn at all times when handling product. Consult SDS for more information.

Certificate of Analysis

Certificate of Analysis (C of A) will be provided upon request.

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