



Bio/CR-5

Seamless Wall Panel System



Composite Face
Composite Core
Reemay Mesh



Life Science Products

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Bio/CR-5
Makes Aging and Damaged
Wall Surfaces Feel Like
They've Found the
Fountain of Youth!



Bio/CR-5 Features

- Returns damaged and aging wall surfaces to "Like New" with minimal cost and effort
- Designed To Cover Existing Block, Gypsum, Metal, Coatings and Paint Walls
- Exceptional Impact Resistance and Impervious to Moisture
- Smooth High Gloss Face
- Highly Chemical Resistant
- Exceptional Impact Resistance
- Easy to Clean
- Class "A" Fire-Rated
- Unique "Woven Backer" Adheres to almost any existing wall surface
- The Bio/CR-5 "Wall System" provides a Long-Lasting, Sealed and Seam-Less Containment and Moisture Barrier for your facility's Interior Envelope.
- Excellent for High Traffic Hallways that have been damaged by Heavy Traffic
- Made and Assembled in the U.S.A.

Bio/CR-5 General Description

The Bio/CR-5 Panel System is part of the LSP Bio-Containment/Clean Room product line. The composite panels are 6mm thick and are made of a Polymer Plastic backer with an embedded webbing for exceptional adherence to almost any existing surface. The face is a Smooth, White, Glossy, Glass Reinforced Thermoset Polyester Resin Face. Panels are available in 4'x8', 4'x9', 4'x10', and other custom lengths. The surface is Class "A" Fire Rated per the ASTM E-84 test. Edges are generally trimmed and sealed using a 100% solids, LEED compliant, gloss finish urethane compound, resulting in a seamless installed wall system. The smooth white surface is impervious to moisture and highly resistant to stains, impact, and chemicals. The ability to mount the Bio/CR-5 directly to Concrete Block, Gypsum Board, Metal Panels, or Concrete Walls, eliminates the need to demolish and replace existing wall substrates. The Bio/CR-5 is designed to withstand routine high-pressure washing, chemical disinfection, and fumigation. The Bio/CR-5 can be used as a ceiling panel in a "hard lid" ceiling application.

Bio/CR-5 Physical Properties

Color: White **Finish:** Gloss

Panel Thickness: 6mm (approximately 1/4")

Edges: Routed for consistent joint width

Fire Rating: Class "A" (1) per ASTM E-84

Weight: 2 pounds per square foot

Hardness: ASTM D2583 – 86 Barcol

Flexural Strength: ASTM D790 – 8,180 PSI

Flexural Modulus: ASTM D790 - 338,000 PSI

Compressive Strength: ASTM D695 – 4,450 PSI

Compressive Modulus of Elasticity: ASTM D695 - 200

PSI Coefficient of Linear Expansion: ASTM D696 – 2.69 (E-05)

Tensile Modulus of Elasticity: ASTM D638 – 217,000 PSI

Water Vapor Transmission: ASTM E96 - 0.0002 g/(h*m²)

Water Vapor Permeance: ASTM E96 - 0.015 perms

Air Permeance: ASTM E2178 - 0.000000 L/(Pa*m²*s)

Surface Chemical Resistance

Acetic Acid - Excellent
Acetone - Good
Benzene - Good
Citric Acid (10%) - Excellent
Chlorine/Water - Excellent
Hydrofluoric Acid (10%) - Good
Hydrogen Peroxide (28%) - Excellent
Mineral Spirits - Excellent
Nitric Acid (40%) - Excellent
Potassium Chloride - Excellent
Propyl Alcohol - Excellent
Sodium Chloride (10%) - Excellent
Sodium Hydroxide (10%) - Excellent
Sodium Hypochlorite (5%) - Excellent
Vaporous Hydrogen Peroxide (VHP) - Excellent
Standard Soap Solution - Excellent
Sulfuric Acid (30%) - Good
Urea - Good

Excellent = No Surface Effect. No Yellowing

Good = Slight Change to Surface Opacity. No Yellowing

Correlation of test results with actual performance is dependent upon the similarity between testing and in-use conditions. LSP recommends you test our surface in your specific conditions before use of any chemical cleaning agent. Always follow manufacturer instructions for use procedures and removal of chemical agents.



The following test results were self-performed by LSP on common commercial chemicals used in the Bio-Medical research industry.

Beta-Dyne - Good
Denatured Alcohol - Excellent
Hydroxy Acetic Acid - Excellent
Phosphoric Acid - Good
Potassium Hydroxide - Excellent
Sodium Hypochlorite Alkaline - Excellent

The facts stated herein are based on our own research and the research of others and are believed to be accurate. No guaranty of their accuracy is made, however, and unless otherwise expressly provided in written contract, the products discussed are sold without conditions or warranties, express or implied. Clients should perform their own tests to determine the suitability of our products for their particular purposes. Nothing contained herein shall be construed to be a recommendation for use.



Limited 10 Year Warranty

The Bio/CR-5 "Wall System" has a limited 10 year warranty if installed by Certified LSP Installers or LSP Certified Training is provided to non-certified installers. Otherwise panels are warrantied for 2 years against manufacturing defects.

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