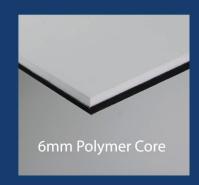
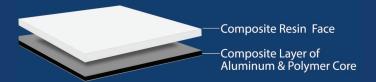


### Bio/CR-4

# Seamless Wall Panel System







#### Life Science Products

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## Bio/CR-4 Breaks The Cycle of Re-Coating Walls

Provides up to 10X the useful life of coatings or paint.

Ideal for BioMedical and Pharma Clean Rooms, Hallways, Vivarium Holding & Procedure Rooms, or any Hygienic Environment



#### **Bio/CR-4 Features**

- Smooth High Gloss Face
- Highly Chemical Resistant
- Easy to Clean
- Excellent Impact Resistance
- Impervious to Moisture
- Class "A" (1) Fire-Rated
- Installs over Gypsum to Eliminate the need for coatings and paint.
- Ends the Cycle of Repairing and Recoating Wall Surfaces.
- Extends surface life by as much as 10X over paints and coatings
- Provides a Sealed & Seamless
   "Wall System" barrier for spaces requiring a Hygienic Environment
- LEED Information 40% Recycled Materials
- Made and Assembled in the U.S.A.

#### **Bio/CR-4 General Description**

The Bio/CR-4 Wall Panel System is part of the LSP Bio-Containment/Clean Room product line. The panels are an aggregate of a High Gloss, Glass Reinforced Thermoset Polyester Resin Face, over multiple layers of Aluminum and a plastic polymer, to provide a rigid and structurally sound composite. The panels are 6mm thick and are available in 4'x 8', 4'x9', 4'x10' sizes.

The Bio/CR-4 is Class "A" (1) Fire Rated per the ASTM E-84 test. Edges are generally routed and sealed using a LEED-compliant, 100% solids, gloss finish urethane compound, resulting in a seamless installed system. The smooth, glossy white surface is impervious to moisture and highly resistant to stains, chemicals, and impact. The Bio/CR-4 is designed to withstand routine high-pressure washing, chemical disinfection, and fumigation. By installing the Bio/CR-4 over gypsum, facilities can extend the useful life of their wall surfaces by as much as 10x over coatings and paint. The Bio/CR-4 can also be used as a ceiling panel in a "hard lid" ceiling application.

#### **Bio/CR-4 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:** 1.7 pounds per square foot **Hardness:** ASTM D2583 – 89 Barcol

Compressive Strength: ASTM D695 - 3,770 PSI

Compressive Modulus of Elasticity: ASTM D695 - 213,800 PSI Potassium Hydroxide - Excellent

Flexural Strength: ASTM D790 - 9,080 PSI
Flexural Modulus: ASTM D790 - 1,020,000 PSI
Modulus of Elasticity: ASTM D695-495,800 PSI

Coefficient of Linear Expansion: ASTM D696 - 1.68 (E-05)
Tensile Modulus of Elasticity: ASTM D638 - 390,000 PSI

Tensile Strength: ASTM D638 - 7,240 PSI

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

Water Vapor Permeance: ASTM E96 - 0.023 perms
Air Permeance: ASTM E2178 - 0.000001 L/(Pa\*m2\*s)

Sound Transmission (STC): ASTM E90 - 62 (Bio/CR-4 Wall System) warrantied for 2 years against manufacturing defects.

#### **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.

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.

(VHP) Vaporized Hydrogen Peroxide - Excellent

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#### **Limited 10 Year Warranty**

Beta-Dyne - Good

The Bio/CR-4 "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

#### Life Science Products have been in demand by these and other highly respected institutions:

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