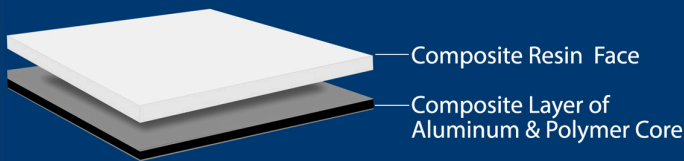
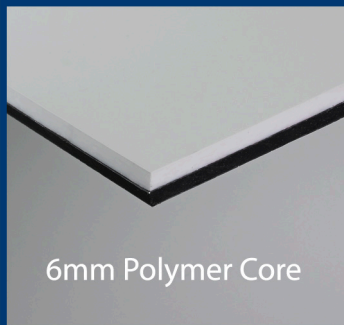




# Bio/CR-4

## 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 – 87 Barcol

**Compressive Strength:** ASTM D695 - 3,990 PSI

**Compressive Modulus of Elasticity:** ASTM D695 - 213,800 PSI

**Flexural Strength:** ASTM D790 – 9,610 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 – 384,400 PSI

**Tensile Strength:** ASTM D638 – 6,668 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)

## 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

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-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.

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