

Bio/CR-7 Hygienic Panel (Walls and Ceilings)

General Description:

Bio/CR-7 Hygienic Panel Surface is part of the LSP Healthcare Construction System. Bio/CR-7 panels are 3 mm thick and are made of a composite aggregate of materials including polymer filled woven components that form an economical and versatile healthcare composite wall covering. The exposed face is composed of **resin/gel coat** finish that creates a consistent smooth face. The panel finish is semi-gloss and the panel is ASTM E 84 Class A for smoke and flame spread.

The panel will be supplied in standard 4' x 8', 4' x 9' and 4' x 10' sizes. The edges of the mounted panels are held 3/16" apart and the resulting void is filled with a 100% solids Urethane sealant that contains no HAP, no-VOC and create a virtually seamless joint that closely matches the panel surface. The primary features of the Healthcare Construction Panels are a non-porous high density surface, high chemical resistance, and a virtual seamless installation. As such the Hygienic System does not support the growth of infectious microbes and can be cleaned and disinfected with the rigorous cleaning protocols required in infectious disease programs.

The Bio/CR-7 "system" is designed to be installed over an existing substrate such as gypsum board in new construction and makes turnaround renovation economical and fast. Additionally it is a sealed seamless hygienic biocontainment room finish that is ideal for significantly reducing bio-load contaminants. Further, the ability to mount these non-porous finished panels to a variety of substrates can reduce construction time and eliminate future maintenance.

Bio/CR-7 panel typical applications:

- Operating Rooms/Surgical Suites
- Infectious Disease Isolation Areas
- Sterilization and Prep or Scrub Rooms
- Emergency Rooms
- MRI or Diagnostic Rooms
- Recovery Rooms

Cleaning: Healthcare Construction Systems can withstand daily surface washing, wet wiping, dusting and vacuuming. They are compatible with a wide range of chemical disinfection and fumigation products. Ask your LSP Representative for more detailed maintenance instructions.

The panels have the following properties:

- Fire Rating:** panel assembly Class 1 ASTM E 84 for flame spread of 25 or less
- Light Reflectance @ 85:** 94.3
- Minimum Weight:** 0.8 lbs. per square foot
- Finish:** Polyester gel coat smooth
- Panel thickness:** 3 mm
- Color:** White & select colors
- Finish:** Semi-Gloss
- Hardness:** ASTM D-785 46 Barcol
- Flexural Mod ASTM D-790-07:** 557,693
- Flexural Strength-ASTM D 790-07:** 5325 psi
- Water Vapor Transmission ASTM E-96:** < 0.0001 perms
- Air Permeance ASTM E-2178 (L/s/m²):** 0.00001 @ 300 pa

Tensile Strength: ASTM D-638: 3272 psi
Tensile Mod ASTM D-638: 511,000
Coefficient of Linear Thermal Expansion CLTE (mm mm C) ASTM D-696: 4.30 E -05
Compressive Strength ASTM D- 695: 5364 psi
Modulus: ASTM D695: 49,873 psi

Chemical Resistance	20% Acetic Acid	Occasional Spill
	50% Citric Acid	Good
	20% Nitric Acid	Occasional Spill
	30% Hydrochloric Acid	Occasional Spill
	10% Hydrofluoric Acid	Occasional Spill
	Hydrogen Peroxide	Good
	40% Potassium Hydroxide	Good
	40% Sodium Hydroxide	Good
	50% Sulfuric Acid	Good
	Urea	Good
	Commercial Clorox	Good

The joint adhesive/sealant has the following properties:

Hardness Shore D	ASTM D-1706	70 - 80
Tensile Strength	ASTM D-638	3,000 psi min.
Flexural Strength	ASTM D-790	4,000 psi min.
Thermal Shock	Mil F-52505	No cracking or loss of adhesion
Abrasion Resistance (Taber Abrader, CS-17 Wheels, 1000 gm. load, 1000 cycles)	ASTM D-4060	.035 gm loss
Ultimate Elongation	ASTM D-638	20% min.