

Bio/CR-8 Hygienic Panel (Walls and Ceilings)

General Description:

Bio/CR-8 panels are part of the LSP Healthcare and Pharmaceutical Construction Systems product line. Bio/CR-8 panels are 3mm thick and made of a composite reinforced plastic with an imbedded weave of glass strands for exceptional Impact Resistance. The surface is a smooth resinous gel-coated face with a low glare, minimally reflective matte finish. The surface finish is ideal for Hybrid Operating Theaters, Surgical Suites, Imaging/Diagnostic Rooms and Pharma Processing Plants. The Bio/CR-8 panel is ASTM E-84 Class A rated for smoke and flame spread. The smooth resinous gel/coal surface also provides exceptional Chemical Resistance, making it an excellent choice when Infection Control is a high priority. Standard and custom colors are available to meet design requirements. The panels can be supplied in standard sizes of 4' x 8', 4' x 9', 4' x 10' and 4' x 12'. 4' wide rolls of a custom length are available for a seamless wainscot. When panels are used from floor to ceiling, joints are filled with a color matched 100% solids Urethane sealant that contains no HAPS, no VOCs and creates a virtually seamless wall or ceiling system. The end result is a smooth Hygienic Wall or Ceiling System that does not support the growth of infectious microbes, is non-porous, maintains high density and is highly chemical resistant. It can be cleaned and disinfected with the most rigorous cleaning protocols required in infectious disease prevention programs. The Bio/CR-8 wall and ceiling system is designed to be installed over an existing substrate such as gypsum board or other smooth, adhesive receptive solid substrates.

Cleaning:

The Bio/CR-8 Panel System can withstand daily surface washing, wet wiping, dusting and vacuuming. It is compatible with a wide range of chemical disinfection and fumigation products. Ask your LSP representative for more detailed maintenance instructions.

Bio/CR-8 applications:

- Operating Rooms/Surgical Suites
- Infectious Disease Isolation Areas
- Imaging or Diagnostic Rooms
- Sterilization Processing Rooms
- O.R. Prep and Scrub Rooms
- Intensive Care Units
- Compounding Rooms

The panels have the following properties:

Fire Rating: Class A (ASTM E-84)
(Tested as specified on Type "X" FR Gypsum)
Light Reflectance: 46.8 (ASTM E1477-98a)
Minimum Weight: 0.9 lbs. per square foot
Finish: Polyester smooth gel coat
Panel Thickness: 3mm
Colors: Tan, Beige, Ivory, White, Light Blue, Silver Gray, Spruce Green. Custom colors available with minimum orders.
Finish: Smooth Matte
Specular Gloss: 45.5 (ASTM D2457-13)
Shear Strength: 56 psi with No Break
Tensile Strength: 15,600psi (ASTM D638-14)
Linear Thermal Expansion: 0.000012/in. from 32°F to 120°F. (ASTM E228-12)
Water Absorption: 0.57% after 24 hours of 100% submersion (ASTM D570-98)

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
	Clorox Commercial	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.