

Vitrium Technology

ESPC's unending commitment to product improvement has resulted in the development of ESPC's newest glass innovation – Vitrium™. This coating combines the outstanding chemical and physical resistant properties of titanium-enhanced glass with a highly engineered, ultra-fine glass bubble structure. This process results in high performance glass-fused-to-steel technology. Vitrium features and benefits include:

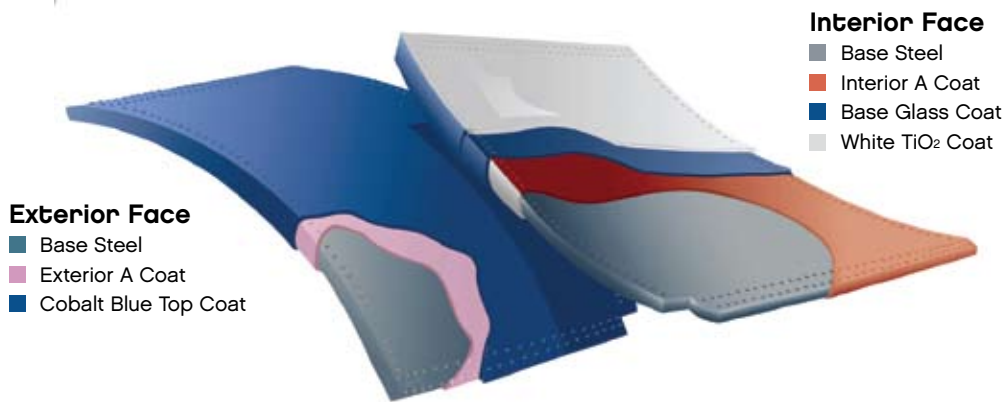
- Tough TiO₂ glass formulations provide longer life
- Electrostatic base coat application ensures consistent quality

- Maximum coating effectiveness without requiring increased coating thickness
- Unique process technologies provide factory certified “holiday-free” sheets
- Process efficiencies lead to competitive pricing
- Ideal for both cold and hot climates



Glass frit is specially formulated to produce the distinctive cobalt blue Aquastore glass coating.

Physical Properties – Glass-Fused-to-Steel Vitrium Technology



Inside Sheet Color	White
Outside Sheet Color	Cobalt Blue, Desert Tan, Forest Green, Sky Blue, White
Nominal Thickness	Interior: 10-18 mils, 260-460 microns Exterior: 7-15 mils, 180-380 microns
Service Range	140° F (60° C) @ 2-11 pH-subject to verification, depending on specific products stored
Abrasion Resistance	Taber-8 mg loss (CS-17, 100g, 100 cycles)
Elasticity	Young's Modulus 12 x 10 ⁶
Permeability	Impermeable to gases and liquids within normal operating temperature ranges
Thermal Conductivity	20.4 BTU in/hr ft ² °F
Cleanability	Smooth, inert, glossy, anti-stick
Hardness	6.0 Mohs
Adherence	Over 5,000 psi to base steel
Impact Resistance	24 inch-lb.
Corrosion Resistance ASTM B-117	Excellent, virtually unaffected by most waste waters, brines, sea water, sour crude, salt spray, organic and inorganic chemicals