





Protectolite<sup>™</sup> Composites Anti-Graffiti and Anti-Microbial proprietary finishes provide you with peace of mind for easy care and maintenance of your end prod~Seat shells

- ~3rd rail insulators
- Anticorrosive panels
  All types of shrouds
  Arm rests

Protectolite<sup>™</sup> Composite FRP is a tough, durable, impact resistant, light weight composite fiberglass material. All our materials are formulated to meet specifications for fire, smoke and toxicity.

**Protectolite Composite offers:** 

- ~Custom Fabrication
- ~Flexibility
- ~Reliability
- ~Quality

#### Some of our Clients

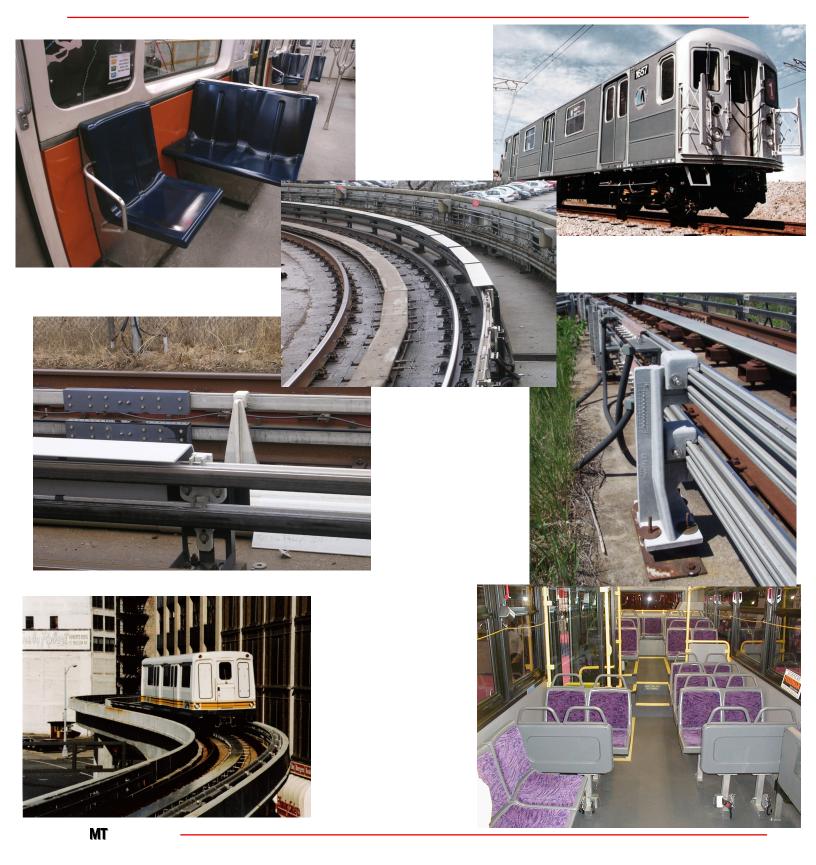
- New Flyer Industries
- Orion Industries
- MCI Inc.
- Novabus Inc
- TTA
- Freedman Seating
- S&C Electric
- Shell Oil

- Toronto Transit Commission
- Cutler Hammer
- USSC Group
- Siemens
- Hammond Enclosures
- Bombardier
- BC Rapid Transit
- Schneider Group

### www.protectolite.com



## **PHOTO GALLERY**



www.protectolite.com



# PROTECTOLITE<sup>™</sup> Composite Proprietary Anti Graffiti and Anti Bacterial products.

Moulded into the surface, these proprietary composite processes provide an enhanced surface – resulting in a superior wear resistant, high gloss surface that is highly resistant to graffiti, and Escherichia and Staphyloccus.

#### The finishes will not come off - even after cleaning solvent use. The colour matches to the substrate, eliminating quality variances of SMC colours.

Pencil Hardness	2H - 5H	ASTM D3363
Gloss, 60 degree	5 – 80% Mould Surface	ASTM D523
Barcol Hardness	45 – 60	ASTM D2583
Cross Hatch Adhesion	4B – 5B	ASTM D3359-78
Tape Adhesion	0% failure (5B)	GM 9071P, Method A
Tape Adhesion	0% failure (X cut)	GM 9071P, Method B
Humidity Test	200 hours, pass	ASTM D2247-94
Taber Abrasion	55 mg. Weight Loss	ASTM D4060
CS-10 whools 1000 cyclos		

CO-10 WIICEIS, 1000 Cycles			
QUV Test, 250 hrs	dE = 0.61;	500 hours	dE = 1.86
South Florida Test, 6 month	dE = 1.01;	<b>Gloss Retention</b>	89%
Xenon Arc Weather-o-meter	100% Gloss rete	ntion	
(SAE J 1960, 1000 KJ)	dE = <1.0		
Heat Exposure(300 hrs @ 150°C)	dE = <2.0		

Surface Resistance:	GM 9501/9P
Gasoline	Pass, no softening
Envirosolve (25 rub & 18-hrs spot test)	No effect
MEK, Xylene, Toluene:	Pass

Benefits to the Antibacterial additive: no skin irritation, non-sensitive and non-mutagenic.

Prevents the spread of dangerous microorganisms and suppresses the growth of bacteria and mould. -FDA 175.170 approval for contact with aqueous and fatty foods.

-FDA 175.180 approval for contact with dry foods

-EC EN71 approval for toy applications

>excellent for use in bus seating, handrails, shrouds, bathroom partitions, and other surfaces that may breed harmful bacteria.

<u>Anti Graffiti exterior finish</u> is currently in production for transportation seating, water-jet craft, bus body panels and truck cab components

## Other FRP Industries served by Protectolite™ Composites Inc.

Architecture, Ballistic, Electrical, Electronic, Industrial/Anticorrosion, Recreational, Waste Water & Water Treatment.















FRP PROTECTOLITE PRODUCTS Address: 84 Railside Road Toronto, ON. M3A 1A3 Canada

**Telephone: 416-444-4484** Fax: 416-444-4485 Email: kszasz@protectolite.com Web: www.protectolite.com

<u>Contact:</u> Karl Szasz President Email: kszasz@protectolite.com

# Benefits of Protectolite Composites products:

- lightweight
- cost competitive
- low installation costs
- proven longevity in the field
- Custom fabrication means all Protectolite systems can meet