General Information

Powder Textured Polyester Coating

To produce a tougher and more resistant finish, BEL Products Inc. enclosures, including lay-in wireways, “D” and “E” boxes and splitter boxes are coated with a powder textured polyester.

BEL electrical enclosures provide better resistance to:
- Chipping
- Chalking and colour change
- Chemicals and stains

BEL powder textures polyester coating accelerated laboratory tests showed:
- No Blistering (in 1000 hours of humidity)
- No face rust (in 1000 hours of 5% salt spray)
- No peeling (in 500 hours of 49°C water immersion)

Chemical Resistance for Powder Textured Polyester Coatings

	1 week	1 month	3 months	6 months	9 months
Hydrochloric Acid, 10%	◗	●			
Hydrochloric Acid, (conc.)	◗	●			
Sulphuric Acid, 10%	○	○	○	○	○
Sulphuric Acid, 30%	◗	◗	●	●	
Nitric Acid, 3%	◗	◗	●		
Nitric Acid, 30%	●				
Phosphoric Acid, 10%	○	○	○	○	○
Phosphoric Acid, 40%	○	○	○	○	○
Acetic Acid, 10%	○	○	●		
Acetic Acid, 50%	●				
Lactic Acid, 5%	○	○	○	○	○
Lactic Acid, 10%	○	○	○	○	○
Sodium Hydroxide, 5%	○	○	○	○	○
Sodium Hydroxide, 30%	○	○	○	○	◗
Ammonia, 10%	○	○	○	○	◗
Ammonia (concentrated)	○	○	○	◗	●
Javelle Bleach (caustic)	○	○	◗	●	
Distilled Water	○	○	○	○	○
Synthetic Salt Water	○	○	○	○	○
Formaldehyde, 40%	○	○	○	○	○
Ethanol, 10%	○	○	○	○	○
Ethylacetate	●				
Toluol	◗	◗	◗	●	
Benzen	◗	◗	●	●	
Leaded Gasoline	○	○	○	○	○
Kerosene	○	○	○	○	○

○ No Change ◗ Some Softening ● Severe Softening

General Information

For The Application of Stainless Steel (Austenite)

A.I.S.I. Grade	Features	When and Where to Use it
Shade 304	The amount of carbon limited to a maximum of 0.08	Applications similar to Shade 302 with a higher resistance to corrosion on surfaces affected by welding
Shade 316	Exceptional resistance to corrosion; improved resistance to distortion	For extreme conditions of corrosion

Finishes

Number 2B	Cold-lamineated, bright. Laminated finish for all uses. Finish varies according to type and thickness of stainless steel. Thin sheets usually brighter than thick ones.
Number 4	A polished finish for all uses. Utilization applies to restaurants and dairy accessories, food product treatment or transformation, medical and chemical equipment, as well as to a variety of architectural products.

General Information

NEMA, UL and CSA Designations

Enclosure Rating	National Electrical Manufacturers Association (NEMA Standard 250) and Electrical and Electronic Mfg. Association of Canada (EEMAC)	Underwriters Laboratories Inc. (UL50 and UL 508)	Canadian Standard Association Standard C22.2 (No94)
TYPE 1	Enclosures are intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment or locations where unusual service conditions do not exist.	Indoor use primarily to provide protection against contact with the enclosed equipement and against a limited amount of falling dirt.	General purpose enclosure. Protects against accidental contact with live parts.
TYPE 2	Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt.	Indoor use to provide a degree of protection against limited amounts of falling water and dirt.	Indoor use to provide a degree of protection against dripping and light splashing of non-corrosive liquids and falling dirt.
TYPE 3	Enclosures are intended for outdoor use primarily to provide a degree of protection against windblown dust, rain and sleet; undamaged by the formation of ice on the enclosure.	Outdoor use to provide a degree of protection against windblown dust and windblown rain; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain, snow and windblown dust; undamaged by the external formation of ice on the enclosure.
TYPE 3R	Enclosures are intended for outdoor use primarily to provide a degree of protection against falling rain and sleet, undamaged by the formation of ice on the enclosure.	Outdoor use to provide a degree of protection against falling rain undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain and snow undamaged by the external formation of ice on the enclosure.
TYPE 4	Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water and hose-directed water, undamaged by the formation of ice on the enclosure.	Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water and hose-directed water; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against rain and snow, windblown, dust, splashing and hosedirected water undamaged by the external formation of ice on the enclosure.
TYPE 4X	Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water and hosedirected water; indamaged by the formation of ice on the enclosure.	Either indoor or outdoor use to provide a degree of protection against falling rain, splashing water and hose-directed water; undamaged by the formation of ice on the enclosure; resists corrosion.	Indoor or outdoor use; provides a degree of protection against rain and snow, windblown, dust, splashing and hosedirected water undamaged by the external formation of ice on the enclosure; resists corrosion.
TYPE 6	Enclosures are intended for use indoors or outdoors where occasional submersion is encountered.	Indoor or outdoor use to provide a degree of protection against entry of water during temporary submersion at a limited depth; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use; provides a degree of protection against the entry of water during temporary submersion at a limited depth; undamaged by the external formation of ice on the enclosure; resist corrosion.
TYPE 12	Enclosures are intended for indoor use primarily to provide a degree of protection against dust, falling dirt and dripping non-corrosive liquids.	Indoor use to provide a degree of protection against dust dirt, fiber flyings, dripping water and external condensation of non-corrosive liquids.	Indoor use; provides a degree of protection against circulating dust, lint, fibers and flyings; dripping and light splashing of non-corrosive liquids; not provided with knockouts.
TYPE 13	Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and non-corrosive coolant.	Indoor use to provide a degree of protection a gainst lint, dust seepage, external condensation and spraying of water, oil and non-corrosive liquids.	Indoor use; provide a degree of protection against circulating dust, lint,fibers and flyings; seepage and spraying of noncorrosive liquids, including oils and coolants.