

Specialty Anti-Corrosive Paint
EDO BOSEI
EDO BOSEI EBM Type (Baking Finish)

Product Summary

Edo Bosei EBM Type is a thermoset paint that consists of specially modified epoxy resin, low-toxic anti-corrosive pigments, color pigments, additives, and various solvents.

Functionality

- (1) Excellent adhesion to aluminum, stainless steel, zinc-coated steel, and other metals.
- (2) Excellent resistance to corrosion as shown in the long exposure and salt-spray tests.
- (3) Contains no toxic pigments (i.e. lead, chromium, cadmium, etc.) to ensure the health and safety of those working with and around the paint.
- (4) Superior workability: finish coat can be applied wet-on-wet over the primer, tolerant to a wide range of baking conditions—from 120°C (low) to 180°C (high) (2-coat/1-bake).
- (5) Overcoatability with various kinds of baked-on finish coats and less absorption of topcoat, resulting in a good finish on the paint surface.

Use and Application

Read the following instructions to ensure the best film performance:

- (1) Stir and shake well before use.
- (2) Always thin with Thinner 2500 .
- (3) Use Thinner 2700 for electrostatic coating.
- (4) Thin up to 30-40% with the thinner by weight to spraying viscosity of 14-16 seconds Iwata cup at 20°C
- (5) Leave the paint for at least ten minutes before applying the top coat.
- (6) Follow the topcoat manufacturer's instructions. *Edo Bosei EBM Type* is tolerant to a wide range of baking conditions (from 120°Cx 30 mins. to 150°Cx 30 mins.).
- (7) Bake at 150°C or higher when applied to a less adhesive substrate.

Intended Use

Anti-corrosion and excellent adhesion for polished stainless products, aluminum products, and other metal products.

Precautions

- (1) Remove any grease from the surface.
- (2) Do not mix with *Edo Bosei EB Type* or other paints.
- (3) The paint must be applied as soon as possible after mixing.
- (4) Clean all painting equipment thoroughly.

Volume

Edo Bosei EBM 16Kg

Thinner 2500 (S = for summer W = for winter) 16L

Thinner 2700 for electrostatic coating (S = for summer W = for winter) 16L

Colors

White, Black, Gray, Brown, Ocher

Film Performance

Test Item	Test Condition	Result
Adhesion	SPCC-SD steel plate (cross-cut test)	100/100
	Aluminum plate 1050P (cross-cut test)	100/100
	Zinc-coated, Bonderized steel plate (cross-cut test)	100/100
Erichsen Test	Erichsen testing machine: 5mm extrusion	Pass
Chip Resistance	Dupont impact tester: 500g, 1/2 inch, 50cm	Pass
Bend Test	3mm (diam.), 180°/1sec, Bend	Pass
Drawing Test	Drawing test equipment: 5mm (radius), 500g, 1/sec	Pass
Finish Coat Compatibility	Cross-cut test: epoxy resin paint, acrylic resin paint, and melamine resin paint	100/100
Water Resistance	Immersed in tap water at ambient temperature for 240 hours	OK
Acid Resistance	Immersed in 5% sulphuric acid solution for 48 hours	OK
Alkaline Resistance	Immersed in 10% sodium carbonate solution at 40°C for 24 hours	OK
Oil Resistance	Immersed in machine oil at ambient temperature for 200 hours	OK
Salt Spray Test	Salt spray tester: 5% NaCl solution at 35°C	
	film thickness: 20µm for 168 hours	Pass
	film thickness: 30µm (2-coat) for 240 hours	Pass
	over melamine resin paint for 500 hours	OK
Weather Resistance	6 months exposure (from May to November)	OK

* Tests were conducted in accordance with JIS.K-5600.

* EBM-Gray was used in all the tests.