

# **NEW EDOBO**

**WHITE  
BLACK  
GRAY**

## **TECHNICAL DATA**

**EDOGAWA GOSEI CO, LTD.**

## ○ Product Summary

The anti-corrosive primer, *EDO BOSEI*, is upgraded and transformed into “*NEW EDOBO*,” an air drying metal primer with enhanced resistance to corrosion, excellent adhesion, overcoatability, and low toxicity. The *NEW EDOBO* primer consists of specially modified epoxy resin for excellent adhesion and selected pigments to boost its anti-corrosive properties. The organic solvents in this eco-friendly product contains no toluene and its anti-corrosive pigments are chromium free. The primer is compatible with various topcoats, retaining more gloss and producing excellent finish on the paint surface.

## ○ Functionality

- **Excellent Adhesion**  
Excellent adhesion to aluminum, stainless steel, surface-treated steel, and other metals.
- **Superior Anti-Corrosive Properties**  
Anti-corrosive properties that are superior to *EDO BOSEI*.
- **Low Toxicity**  
Contains no toxic pigments (non-chrome type) to preserve the environment and ensure the health and safety of those working with and around the paint.
- **Superb Workability**  
Dries as fast as lacquer, cures at ambient temperatures, and can be force-dried.
- **Perfect Overcoatability**  
Overcoatability with various kinds of finish coats (phthalate resin, polyurethane resin, epoxy resin, acrylic resin for air-drying, and melamine resin as well as other thermosetting paints).

## ○ Composition

**Resin:** Specially modified epoxy resin

**Anti-corrosive pigment:** Pollution-free, non-chrome, specialty pigment

**Color pigment:** Completely lead-free color pigments

**Extender pigment:** Inorganic, specialty pigment with excellent anti-corrosive properties

**Additives:** Specialty additives for enhanced dispersibility and stability

**Organic solvent:** Toluene free

## ○ Intended Use

Anti-corrosive primer for steel, aluminum, stainless steel, and other metal products.

## ○ Use and Application

- **Mixing**

Stir and shake well before use to mix any sediment.

- **Thinning**

Thin up to 30-60% with the thinner 2600 by weight to the viscosity of 15-25 seconds Iwata cup at 20°C.

- **Setting**

Leave the paint for at least five minutes at ambient temperatures before applying the top coat. If you use lacquer, leave it for at least 24 hours for better adhesion.

- **Drying**

- Set to touch: 5 minutes at 20°C
- Dry-hard: 30-60 minutes at 20°C
- Forced drying: 5-10 minutes at 60-150°C

- **Drying conditions for the top coated film**

Follow the topcoat manufacturer's instructions.

- **Coverage**

Approximately 160g/m<sup>2</sup> (after dilution)

## ○ Film Performance

### Single layer film:

Test Item	Test Conditions	Steel	Bonderized	Aluminum	Stainless	Hot Rolled Steel
Adhesion	Cross-cut test	100/100	100/100	100/100	100/100	100/100
Drawing Test	Drawing test equipment: φ1cm x 1kg load	○	○	○	○	○
Bend Test	Bend test equipment: φ4mm 180°	○	○	○	○	-
Chip Resistance	Impact tester: φ1/2inch x 500g x 40cm	○	○	○	○	○
Pencil Hardness	Hardness tester: Mitsubishi UNI	HB	-	-	-	-
Acid Resistance	Immersed in 5% H <sub>2</sub> SO <sub>4</sub> solution for 48 hours	good	-	-	-	-
Alkaline Resistance	Immersed in 5% Na <sub>2</sub> CO <sub>3</sub> solution for 48 hours	good	-	-	-	-
Water Resistance	Immersed in 40°C H <sub>2</sub> O for 48 hours	good	-	-	-	-
Oil Resistance	Immersed in cutting oil for 200 hours	good	-	-	-	-
	Immersed in hot cutting oil (95°C) for 24hours	good	-	-	-	-
Solvent Resistance	Lacquer: 500g load, round-trip	15 ≤	-	-	-	-
	Methanol: 500g load, round trip	30 ≤	-	-	-	-
	Xylene: 500g load, round trip	50 ≤	-	-	-	-
Salt Spray Test	Rust width of cut part: 35°C x 98% x 240 hours	1mm ≥	-	-	-	-
	Swelling (outside the cut part)	○	-	-	-	-
	Width of scotch tape removed	1mm ≥	-	-	-	-

Paint: *NEW EDOBO WHITE*

Thinning: At 50% with Thinner 2600

Film Thickness: approximately 20μm

Plate: Degreased

Steel: SPCC-SD steel plate

Aluminum: A1050P

Stainless steel: SUS304 plate

Drying condition: 7 days at ambient temperatures

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

### Polyurethane coated film:

Test Item	Test Conditions	Steel	Bonderized	Aluminum	Stainless	Hot Rolled Steel
Adhesion	Cross-cut test	100/100	100/100	100/100	100/100	100/100
Drawing Test	Drawing test equipment: φ1cm x 1kg load	○	○	○	○	○
Bend Test	Bend test equipment: φ6mm 180°	○	○	○	○	-
Chip Resistance	Impact tester: φ1/2inch x 500g x 30cm	○	○	○	○	○
Coating film Appearance	Shrinkage and/or lifting	good	good	good	good	good

### Undercoating:

Paint: *NEW EDOBO WHITE*

Thinning: At 50% with Thinner 2600

Film Thickness: approximately 20μm

Plate: Degreased plates

Drying condition: One hour at ambient temperatures

Topcoating:

Paint: *UB802 BLACK*  
Thinning: At 30% with *#292 Urethane Thinner*  
Film Thickness: approximately 25µm  
Drying condition: 7 days at ambient temperatures

**Alkyd-melamine coated film:**

Test Item	Test Conditions	Steel	Bonderized	Aluminum	Stainless	Hot Rolled Steel
Adhesion	Cross-cut test	100/100	100/100	100/100	100/100	100/100
Drawing Test	Drawing test equipment: 1kg load	o	o	o	o	o
Bend Test	Bend test equipment: φ6mm 180°	o	o	o	o	-
Chip Resistance	Impact tester: φ1/2inch x 500g x 30cm	o	o	o	o	o
Coating film Appearance	Shrinkage and/or lifting	good	good	good	good	good

Undercoating:

Paint: *NEW EDOBO WHITE*  
Thinning: At 50% with Thinner 2600  
Film Thickness: Approximately 20µm  
Plate: Degreased plates  
Drying condition: One hour at ambient temperatures

Topcoating:

Paint: *MR802 BLACK*  
Thinning: At 30% with *#200 Melada M Thinner*  
Film Thickness: Approximately 25µm  
Drying condition: 30 minutes at 120°C

o **Precautions**

- Do not mix with our existing *EDO BOSEI* or other paints.
- Remove all grease from the substrate.
- Mixing with other company's thinner may cause the pigments to separate from resin and compromise its performance.
- Pigments may settle into a hard cake in the thinned paint if left for a long time.
- The coating may show weaker mutual adhesion depending on the paint used. Make sure to check the composition of the paint prior to application.
- The test results do not necessarily guarantee the quality and performance of our product under any conditions.
- Read the SDS before use for safety instructions.

o **Volume**

NEW EDOBO: 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