

No Skidding®



EPO TUFF EWB-36 SLIP RESISTANT WATERBORNE EPOXY ACRYLIC PRODUCT DATA SHEET

266 Wildcat Rd, Toronto, ON M3J 2N5 Canada
Phone: (416) 667-1788 Fax: (416) 667-1783
sales@noskidding.com www.noskidding.com
or call us Toll Free at 1-800-375-0571

We warehouse within the U.S. for our U.S. customers



Product Data / Application Instructions

- Self-priming
- Direct to substrate
- VOC-compliant
- Dries fast, minimum downtime
- Interior or exterior use
- Brush, roll or spray
- High gloss
- Durable
- Water-reducible
- Outstanding color and gloss retention
- Wide color range

EWB-36 is a high-performance waterborne epoxy acrylic coating for steel, concrete, masonry, wood, galvanizing, aluminum substrates, previously painted surfaces V.C.T. tile and similar. Combining the long-term protection of epoxy with the gloss and color retention of acrylic, EWB-36 provides a lustrous, stain-resistant, cleanable finish that retains its attractive appearance far longer than two-component solvent epoxies and traditional systems.

EWB-36 requires minimal surface preparation, usually only power-tool cleaning or metal etching. It dries much faster than solvent VOC-compliant epoxies and conventional epoxy acrylics.

Low-hazard, low-odor EWB-36 meets air quality regulations and cleans up easily. EWB-36 resists splash and spill of most household and industrial chemicals, provides excellent long-term protection in industrial and chemical environments. Washable and scrub resistant, EWB-36 withstands steam cleaning. Good abrasion resistance makes EWB-36 a durable coating for floors, walls and other high-wear areas.

Typical Uses

- Floors, walls
- Institutional maintenance and new construction
 - Schools
 - Hospitals
 - Kitchens
 - Storage areas
 - Laboratories
- Industrial maintenance and new construction
 - Tank exteriors
 - Equipment
 - Piping
 - Structural steel
- Marine applications
 - Vessel topsides and interiors
 - Offshore platform topsides and interiors

Typical Uses

Coated surfaces: May be applied over most existing coatings, including alkyds, epoxies, vinyls, polyurethanes, acrylics. To ensure good adhesion, conduct a compatibility test over clean, intact area or roughen the surface with light abrasive blasting or sanding. See primers.

Physical Data

Finish: Gloss
Color: Standard and custom
Uniform appearance may require two coats of white or pastel colors over dark substrates.

Yellow, red and orange colors will fade faster than other colors due to the replacement of lead-based pigments with lead-free pigments in these colors.

Components	2
Curing mechanism	Drying; chemical curing (crosslinking)
Volume solids (ASTM D2697 modified)	
EWB-36 colours	43 ± 3%
clear	36 ± 3%
Dry film thickness per coat	2 to 3 mils (50 to 75 microns)
Coats	1-2 (see systems)

Theoretical coverage	ft ² /gal	m ² /L
1 mil (25 microns)		
EWB-36 in colours	689	17
clear	577	14
3 mils (75 microns)		
EWB-36 in colours	229	5.6
clear	192	4.7

VOC		
mixed	217 g/L	288 g/L
Flash point (SETA)	°F	°C
cure	117	47
resin	175	79
mixed	155	68

Qualifications

USDA – incidental food contact
NFPA – Class A



Application Data

Applied over	Prepared or primed steel, concrete, masonry, wood, galvanizing, aluminum, previously painted surface, V.C.T.
Primers	Epo Tuff ES-83
Surface preparation Method	See specific primer Airless, air-assisted airless or conventional spray, brush, roller
Mix ratio (by volume)	8 parts resin to 1 part cure

Environmental conditions

Temperature	°F	°C
air	40 to 110	4 to 43
surface	40 to 120	4 to 49

Typical Properties Performance

Abrasion (ASTM D4060) CS17, 1000 cycles, 1kg	130 mg
Impact (ASTM G14)	14 in • lbs
Adhesion (Elcometer) (ASTM D4541)	600 psi
Flexibility (ASTM D522)	35%
Moisture Vapor Transmission (ASTM D1653) Specific Permeability	0.52
Pendulum Hardness , Konig (7 days, 70°F)	107
Temperature Resistance (dry)	°F/°C
Continuous	200/93
Intermittent	250/121
Weatherability (QUV & Florida Exposure) Chalk Resistance Gloss Retention	1 yr/Good 1 yr/Excellent
Salt spray (ASTM B117) 1000 hrs; 1 coat Face Corrosion (ASTM D1654)	10 Unaffected
Humidity/Condensation (ASTM D4585) 100 hrs; 1 coat Face Corrosion (ASTM D1654)	10 Unaffected
Flame Spread (ASTM E84) Cement Steel	5 10
Steam Cleanable	Yes
Chemical resistance (ASTM D1308) (TT-C-550C)	Good
Stain Removal (TT-C-550C)	Easily cleaned
Freeze/Thaw (ASTM D2243)	Pass (5 cycles)

Systems Recommendations

Substrate	Number of Coats	DFT/ Coats	Total DFT Mils
Steel	1-2	2-3	2-6
Galvanizing or Aluminum	1-2	2-3	2-6
Concrete	1-2	2-3	2-6
Masonry	1-2	2-3	2-6
Wood	1-2	2-3	2-6

Notes: 1. Choice of one or two coats depends on the severity of exposure and surface roughness.
2. Observe overcoating intervals and application instructions for primer.

Relative humidity (maximum)	°F
	40 50 to 100 >100
	60% 85% 95%

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Shipping Data

Packaging units	1 gal	5 gal
cure	0.11 gal in 1-pint can	0.56 gal in 1-gal can
resin	0.89 gal in 1-gal can	4.45 gal in 5-gal can

Shipping weight (approx)	lb	kg
1-gal unit		
cure	1.2	0.55
resin	10	4.5
5-gal unit		
cure	6	2.7
resin	49	22.3

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)
cure and resin 1 year from shipment date

Protect from freezing

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions. This product is nonphotochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

Chemical Resistance Guide

Environment	Splash and Spillage	Fumes and Weather
Acidic	G	G
Alkaline	E	E
Salt solutions		
Acidic	E	E
Neutral	E	E
Alkaline	E	E
Seawater	E	E
Fresh water	E	E
Solvents	G	G
Petroleum products	E	E
	G-Good	E-Excellent

This table is only a guide to show typical resistance. Contact your representative for your particular corrosion protection needs. EWB-36 is not recommended for continuous immersion service.



Surface Preparation

Coating performance is proportional to the degree of surface preparation. Primed surface must be free of moisture, grease or other contaminants.

Steel - Remove all loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required: SSPC-SP3; SSPC-SP2; SSPC-SP6; SSPC-SP7. Water blasting is also acceptable. For more severe service, clean to SSPC-SP10. The choice of surface preparation will depend on the system selected and end-use service conditions.

Galvanizing - Remove oil or soap film with neutral detergent or emulsion cleaner. Then use zinc treatment or blast lightly with fine abrasive.

Aluminum - Remove oil, grease or soap film with neutral detergent or emulsion cleaner; treat with primer or equivalent or blast lightly with fine abrasive.

Concrete/masonry - Clean concrete surface, abrasive blast (ASTM D4259) or acid-etch (ASTM D4260). Fill concrete voids with. Clean masonry surface by ASTM D4261. Fill masonry block with Block Filler.

Wood - Sand new and bare wood to remove any surface contamination and surface cells. Remove oil spots, sap or pitch. Properly dispose of solvent rags to avoid spontaneous combustion hazards. A wood primer or a first coat of EWB-36 may be used to prime surface. To recoat primed wood, remove all dirt, grease or oil with a cleaner. Rinse with clean water. Remove wax with commercial dewaxer. Sand loose paint to a tight, adherent surface.

Aged coating - All surfaces must be clean, dry, tightly bonded and free of all loose paint, corrosion products or chalky residue. Clean by pressure water blast (1000 psi or greater), SSPC-SP1, SSPC-SP3 or SSPC-SP7.

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure and tip size may be needed for proper spray characteristics.

Airless spray - Standard 30:1 airless pump or equivalent with a 0.017-inch fluid tip.

Conventional spray - Industrial equipment, such as DeVilbiss JGA or Binks BBR spray gun. A moisture and oil trap in the main air supply line, a pressure material pot with mechanical agitator and separate regulators for air and fluid pressure are recommended.

Power mixer - Jiffy mixer powered by an air or an explosionproof electric motor.

Brush - Natural bristle. Maintain a wet edge.

Roller - Industrial solvent resistant roller. Level any air bubbles with bristle brush. Flow control additive is recommended when brushing or rolling for improved appearance (use maximum of 1/2 pint per 1 gal mix or 1 quart per 5 gal mix).



Environmental Conditions

Temperature	°F	°C
air	40 to 110	4 to 43
surface	40 to 120	4 to 49

Relative humidity	
40°F	maximum 60%
50 to 100°F	maximum 85%
above 100°F	maximum 95%

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Application Procedure

1. Stir resin using power mixer to disperse pigments.
2. Add cure to resin. Mix thoroughly until uniformly blended. Induction time before application is required for proper film build and appearance.
3. Do not mix more material than will be used within pot life.

Pot life is shortened by higher temperatures.

Pot life/Induction times	°F/°C		
	90/32	70/21	50/10
Pot life (hours)	4	8	16
Induction (minutes)	15	30	60

4. If required for workability, add up to 1/2 pint water per gallon of EWB-36 and stir thoroughly. Do not exceed thinning limit. Film build will be reduced.
5. Drying times (ASTM D1640) @ 2 mils DFT

	°F/°C		
	90/32	70/21	50/10
touch (minutes)	10	30	90
through (hours)	1/2	61/2	48
full cure (days)	3	7	14

Recoat time
 minimum (hours) 11/2 2 48
 maximum (days) None. See surface preparation for aged coatings

6. Apply a wet coat in even, parallel passes; overlap each pass 50 percent to avoid holidays, bare areas and pinholes. If required, cross spray at right angles.
7. Clean all equipment immediately after use with clean water.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

CAUTION - Improper use and handling of this product can be hazardous and cause fire or explosion. Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mist concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interior and buildings.

This product is to be used by those knowledgeable about proper application methods. N S P makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which N S P is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

Note: Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

This product is for professional use only. Not for residential use.

Limitation of Liability

N S P's liability on any claim of any kind, including claims based upon N S P's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which give rise to the claim. In no event shall N S P be liable for consequential or incidental damages.

Warranty

N S P warrants its products to be free from defects in material and workmanship. N S P's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at N S P's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to N S P in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify N S P of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

N S P makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall N S P be liable for consequential or incidental damages.

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