



# TBS COMPONENT DATA SHEET

## TECHNICAL BARRIER SYSTEMS INC.



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## EMBE CLEAR AU SEALER 50

### Description

EMBE Clear AU Sealer 50 is a single or two component, very versatile water-based, self-crosslinking Acrylic/Urethane coating. AU Sealer comes clear or pigmented, gloss or low sheen.

### Product Features

- Water-based, simple and safe to handle
- Low odor and V.O.C. (Volatile Organic Compounds)
- Excellent hot print resistance properties
- Fast dry and early water resistance
- Non-staining
- Excellent scrubability and abrasion resistance
- Non-flammable
- Excellent water and chemical resistance
- Excellent clarity and block resistance
- Excellent leveling, flow, and microform-free properties
- Excellent adhesion to variety of substrates
- Mildew resistance property
- UV resistance properties.

### Typical Uses

Clear topcoat and sealer for masonry, concrete, wood flooring systems and furniture, vinyl tile, epoxy coated flooring. Superior to traditional oil modified urethane and similar solvent-based flooring.

### Surface Preparation

All surfaces to be coated must be free of dirt, oil, and any other contaminants that may prevent proper adhesion. Hard, glossy, non-porous surfaces should be mechanically abraded before coating application to improve adhesion.

For wood substrates pre-finished by UV curing coatings or other seamless coatings, use 1-Pack Acrylic SuperBond Primer, as the primer for sanding-free application.

### Technical Data

Color	Clear and pigmented
Resin Type	Acrylic/Urethane
Sheen(60°)	Gloss(85-90%) Semi-gloss(70-80%) Low Sheen(5-20%)
Percent Solids	30+/- 5%(vol.)
Theoretical Coverage	11-12 M <sup>2</sup> /lit @ 25 microns DFT 200-400 ft <sup>2</sup> /US gal @ 2-1 Mil DFT (dry film thickness) =(7-4Mils Wet)
Abrasion Resistance	(ASTM D4000) 1000g load 1700 cycles c-s wheel: 15 mg loss
Drying Time @ 23°C(75°F)	To touch/recoat 1 hrs / 2 hrs
Light traffic	24 hours
Fully Cured	7 days
Reducer/clean up	Water
Viscosity @ 23°C(75°F)	55-75 KU
VOC	185 gr/lit
Specific Gravity	1.03 +/- 0.01(gr/lit) 8.60 +/- 0.05(lb/gal)
pH	8.00-9.50

### Method of Application

For improved adhesion, water and solvent resistance, as well as better exterior durability small quantity of **catalyst** is recommended. The amount of catalyst is 8 grams per litre, 0.282 oz per gallon. The catalyst should be added slowly under medium agitation with power tools. Pot life of catalyzed coating is 18-24 hours. Roller, spray gun and brush can be used to apply EMBE Clear AU Sealer - 50. Recoat time between each coat is minimum 1 hour and maximum 24 hours.

**Solvent Resistance\***

MEK Double Rubs	100
IPA Double Rubs	100
Xylene Double Rubs	100

**Stain Resistance, 4 Hours Exposure\***

Black Marker	4
Ball Point Ink	4
Crayon	5
Lipstick	5
Shoe Polish	4
Merthiolate	2
Iodine	2
Dye	5
Coffee	5
Tea	5
Water	5
Mustard	5
Ketchup	5
Nail Polish	5
Nail Polish Remover	2
50% Ethanol/Water	4
Urine	5

**Chemical Resistance, 4 Hours Exposure\***

10% Acetic Acid	4
2% Nitric Acid	5
10% Sulfuric Acid	5
10% NaOH	5

**Stain Rating**

- 5 No effect
- 4 Very slight effect
- 3 Slight stain
- 2 Moderate stain
- 1 Severe stain

\*All data are based on catalyzed TBS EMBE Clear AU Sealer - 50 and 3 mils wet films

**Film Formation**

Film Formation of TBS EMBE CLEAR AU SEALER - 50 depends on temperature and humidity. Minimum Film Formation Temperature is 10C (50F) and Maximum Relative Humidity is 60%.

As a rule lower temperature and higher humidity results longer curing.

TBS EMBE CLEAR AU SEALER – 50 SIMILAR TO ANY WATER-BASED COATINGS ARE NOT RECOMMENDED TO BE APPLIED IN WET ENVIRONMENT.