



## EMC53-1

**Polyurethane: Moisture Cured, Solvent-Based, Aromatic Polyether**

### PRODUCT DESCRIPTION

LOW VOC MEETS 350 g/l STANDARDS

**EMC53-1** is an aromatic oil free, one-package, moisture cured, polyurethane resin used to develop high gloss coatings for wood, concrete and metal substrates. **EMC53-1** cures by the reaction of available NCO with moisture in the ambient environment, resulting in a coating with exceptional durability.

### APPLICATIONS

- Hardwood Floors
- Concrete Topcoats (over epoxy surface)
- Metal Protective Coats

### STORAGE AND HANDLING:

EMC53-1 is a moisture cure, NCO terminated material; as such, any opened container which is exposed to moisture will increase in viscosity, gel and/or become solid. If moisture is introduced, use the product immediately. Any container, once opened, should be resealed with a nitrogen blanket. EMC53-1 should be applied at temperatures greater than 50°F. EMC53-1 has a shelf life of 6 months.

#### TECHNICAL INFORMATION

% Solids	40-43%
% NCO	2.7 – 3.3%
Weight/Gallon	9.2 - 9.4 lb/gal
Viscosity	(@ 25°C) 50 - 100 cps
Color	Clear
VOC g/l	<350

#### Typical Physical Properties

Elongation	85%
Hardness (Sward)	38
Tensile Strength	5000 psi
Impact resistance (direct)	160 inch pounds
(reverse)	140 inch pounds

**CAUTION: EMC53-1** contains flammable liquids. KEEP AWAY FROM HEAT, SPARKS AND FIRE. Do not leave container open. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapor or repeated or prolonged contact of liquid with skin.

### ASTM TEST METHODS

% Solids - D-2369 Hardness - D-2134 Viscosity - D-2196 Tensile - D-412 Abrasion - D-4060 Wt./Gallon - D-1475 Elongation - D-412 VOC Properties D-3960

<sup>1</sup>Taber Abrasion Weight Loss 1000 gram load/1000 cycles

<sup>2</sup>Instron tester; films pulled at 2 inches per minute