



# PRODUCT INFORMATION

## Urethane; Polyurethane: Moisture Cure Solventbase Aromatic Polyether

### MC40P

#### PRODUCT DESCRIPTION

**MC40P** is an oil-free, one-component aromatic, moisture curing polyurethane resin. **MC40P** provides tough, hard coating protection on a wide variety of rigid substrates, especially wood and concrete. It is a superior single component coating that outperforms many two-component products currently available. **MC40P** is easily used as supplied and can be further formulated to meet your specific requirements.

#### APPLICATIONS

- hard and soft wood floors
- wood form coating for pre-cast concrete
- concrete floors as a topcoat and/or sealer
- seamless floors
- conformal coating for printed circuit boards in the electronics industry
- bowling alleys
- golf clubs

**STORAGE AND HANDLING:** **MC40P** is a moisture cure, NCO-terminated material; as such, any opened container that is exposed to moisture will gel and/or become solid. If moisture is introduced, use the product immediately. Any container, once opened, should be resealed with a nitrogen blanket. **MC40P** should be applied at temperatures greater than 50°F. The higher the relative humidity and temperature, the faster **MC40P** will cure. Under normal conditions of 60-90°F and relative humidity above 35%, coatings made from **MC40P** can be walked on in 5-12 hours. **MC40P** can be buffed and recoated when tack free to foil in 3-10 hours after application. **MC40P** has a shelf life of 6 months. A good quality brush or mohair roller, kept well filled will insure an even coat.

All finish coats should be applied within 24 hours. **MC40P** has a shelf life of 6 months from date of manufacture in an unopened container.

#### TECHNICAL INFORMATION %

- Solids: 40 ± 1
- Viscosity (@ 25°C): 70-130 cps
- % NCO: 2.7 - 3.3%
- Weight/Gallon: 8.0 lbs ± 0.10
- VOC Rating: ( /L) 585 ± 8
- VO Rating (Wt/Gal.) 4.86 ± .06
- Color: Gardner 1 MAX
- Solvent System: Xylol-PM Acetate
- Flash Point: 81°F

#### Typical Physical Properties



# PRODUCT INFORMATION

Elongation(2): 85%  
Hardness (Sward): 38  
CS10 Wheel(1): 18 mg  
CS17 Wheel(1): 28 mg  
Gloss @ 60°: 95  
Tensile Strength(2) 5000 psi  
Impact Resistance: 160 inch pounds (direct) 140 inch pounds (reverse)

## Dry Times

Hard dry<sup>3</sup> 3 - 6 hours  
Set to touch<sup>3</sup> 10-20 min.  
Surface dry<sup>3</sup> 25-45 min.

**CAUTION: MC40P** 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

<sup>3</sup>Air dry 3-mil wet film, 40% TNV, 50% R.H. 72°F

02/15