

## PRODUCT DATA

3 03 40 00 **Precast Concrete**

# MBT FORM-COTE

**One component polyurethane form coating****Description**

MBT Form-Cote is a one component lacquer with a moisture curing polyurethane component for permanently protecting wood. Unlike factory prepared, plastic-coated wood forms, MBT Form-Cote builds up a thick protective film on both the backs and edges of the grain. MBT Form-Cote can be applied to coat concrete forms for precast and prestressed concrete.

**Yield**200 - 250 ft<sup>2</sup>/gal (4.9 – 6.1 m<sup>2</sup>/L)**Packaging**

5 gal (18.9 L) pails

**Color**

Light amber

**Shelf Life**

1 year when properly stored

**Storage**

Store unopened containers in a cool, clean, dry area out of direct sunlight. Keep containers tightly sealed after opening to maintain shelf life freshness.

In case of spillage, absorb and dispose of in accordance with federal, state and local applicable regulations.

**Features**

- Durable
- Chemical and abrasion-resistant film
- Hard and tough
- Fast curing
- Can be used for multiple pours
- One component

**Benefits**

- Keeps end grain in wood forms from cracking and chipping
- Protects and preserves forms over time
- Equivalent to a commercial form
- Coated forms are ready within 2 hrs; speeds up productivity
- Outlasts the form
- No mixing required

**Where to Use**

## APPLICATION

- For plant use only
- Precast concrete
- Prestressed concrete
- Ornamental concrete

## LOCATION

- Vertical or horizontal

## SUBSTRATE

- Wood forms
- Concrete forms

**How to Apply****Surface Preparation**

All surfaces must be clean and dry before application. Surface preparation should provide for a porous surface to maximize adhesion. If the wood already has a coating on it, the MBT Form-Cote may delaminate after drying. While application in this situation is not recommended, be sure to first roughen the existing coating thoroughly (with rough sand paper, etc). Sand rough wood to a smooth surface. If wood grain rises after the first coat, sand it lightly before applying the second coat.

**Application**

1. Apply MBT Form-Cote by brush or roller. Two coats are recommended for maximum protection.
2. First Coat: Thinning should be unnecessary; apply directly from the container, allowing the first coat to cure two to four hours. However, if thinning is desired, thin with Xylene a maximum of 25%.
3. Second Coat: Apply the MBT Form-Cote directly from can with no thinning. Do not wait more than 24 hours to re-coat, because MBT Form-Cote becomes so hard it will not stick to itself unless heavily abraded.
4. Forms are ready for use the next day.

NOTE: Withdraw only enough MBT Form-Cote from the original container that can be used in one day. Close container immediately to prevent contact with air. Material taken from the original container for use should never be returned to it, but stored separately and used within 24 hours.

**Clean Up**

Clean all tools and equipment with MBT Solvent 106 or commercial solvent. Clean hands and skin with soap or industrial hand cleaner, not solvents.

## Technical Data

### Typical Properties

PROPERTY	VALUE
<b>Solids, %</b>	40
<b>Viscosity (Brookfield), CPS</b>	120
<b>Weight/Gallon, lbs</b>	8.0

### Test Data

PROPERTY	RESULTS	TEST METHODS
<b>Abrasion resistance</b> , mg lost; Taber CS10 Wheel, grams/1000 rev	16-20	ASTM C 501
<b>Hardness</b>	45	Sward
<b>Impact Resistance</b> , in/lb		
Direct	160	
Reverse	140	
<b>Flexibility</b> , 1/8" mandrel		Pass
<b>Tensile strength</b> , psi	4800	ASTM D 412
<b>Elongation</b> , %	100	ASTM D 412
<b>Weathering / UV Resistance</b> ,		Atlas Weather-O-Meter at 200 hours
Gloss Retention	Moderate	
Color Retention	Slight Ambering	

### Chemical Test

Excellent resistance to alkaline concrete in all concentrations, all temperatures and water/cement ratios.

### Drying Time

At 3 wet mils, times assume 70° F (21° C) and 50% relative humidity.

To touch: 30 minutes

To recoat: 1 hour (minimum)

To full cure: 1 - 2 hour

Lower surface or air temperatures and higher relative humidity will extend drying time.

### For Best Performance

- No mixing required; don't over agitate to prevent air entrapment.
- Mixing this product increases the generation of flammable vapors. If you mix the product, make sure that you do so in an adequately ventilated area to ensure safe handling during this process.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

### Health and Safety

MBT FORM-COTE

#### Warning

MBT Form-Cote contains toluene, xylene and ethylbenzene.

#### Risks

FLAMMABLE LIQUID AND VAPOR. May cause skin and eye irritation. Ingestion may cause irritation. Inhalation of vapors may cause irritation and intoxication with headaches, dizziness and nausea. Reports associate repeated or prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage. Suspect cancer hazard. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Repeated or prolonged contact with skin may cause sensitization. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

### **Precautions**

KEEP AWAY FROM HEAT, FLAME AND SOURCES OF IGNITION. Vapors are heavier than air. Keep container closed. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

### **First Aid**

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

### **Proposition 65**

This product contains materials listed by the State of California as known to cause cancer, birth defects or other reproductive harm.

### **VOC Content**

583 g/L or 4.86 lbs/gal, less water and exempt solvents.

**For medical emergencies only,  
call ChemTrec (1-800-424-9300).**

**BASF Construction Chemicals, LLC –  
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