

MasterFinish[®] PT 100

One component polyurethane protective coating

Description

MasterFinish PT 100 protective coating is a one component lacquer with a moisture curing polyurethane component for permanently protecting wood. Unlike factory prepared, plastic-coated wood forms, MasterFinish PT 100 protective coating builds up a thick protective film on both the backs and edges of the grain. MasterFinish PT 100 protective coating can be applied to coat concrete forms for precast and prestressed concrete.

Applications

Recommended for use in:

- Plants only
- Precast/prestressed concrete
- Ornamental concrete

Location

- Vertical or horizontal

Substrate

- Wood forms
- Concrete forms

Features

- Durable
- Chemical and abrasion-resistant film
- Hard and tough
- Fast curing
- Can be used for multiple placements
- One component
- Excellent resistance to alkaline concrete in all concentrations, all temperatures and water-cementitious materials ratios

Benefits

- Protects 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 hours and hence, speed up productivity
- Outlasts the form
- No mixing required

Guidelines for Use

Yield: 200 - 250 ft²/gal (4.9 – 6.1 m²/L).

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 MasterFinish PT 100 protective coating 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 MasterFinish PT 100 protective coating by brush or roller. Two coats are recommended for maximum protection.
2. First Coat: Thinning is not necessary; apply directly from the container, allowing the first coat to cure two to four hours.
3. Second Coat: Apply the MasterFinish PT 100 protective coating directly from can with no thinning. Do not wait more than 24 hours to re-coat, because MasterFinish PT 100 protective coating 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 MasterFinish PT 100 protective coating 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.

Drying Time:

At 3 wet mils (0.08 mm), at a temperature of 70 °F (21 °C) and 50% relative humidity:

To touch: 30 minutes

To recoat: 1 hour (minimum)

To full cure: 1 - 2 hours

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

Clean Up: Clean all tools and equipment with a commercial solvent. Clean hands and skin with soap or industrial hand cleaner, not solvents.

Technical Data

Typical Properties

Property	Value
Solids, %	40
Viscosity (Brookfield), cP	120
Density, lb/gal (kg/L)	8.0 (0.96)

Test Data:

Property	Results	Test Method
Abrasion resistance, Taber CS10 Wheel, g/1000 rev.	16-20	ASTM C 501
Hardness	45	Sward
Impact Resistance, in.-lb (N-m) Reverse	140 (16)	
Flexibility, 1/8 in. mandrel		Pass
Tensile strength, psi (MPa)	4800 (33)	ASTM D 412
Elongation, %	100	ASTM D 412
Weathering / UV Resistance,		Atlas Weather-O-Meter at 200 hours
Gloss Retention	Moderate	
Color Retention	Slight Ambering	

For Best Performance

- No mixing required.
- Mixing this product increases the generation of flammable vapors. If the product is going to be mixed, it should be done in an adequately ventilated area to ensure safe handling.
- Make certain the most current versions of product data sheet and safety data sheet are being used; call your local sales representative to verify the most current versions.

Storage and Handling

Storage Temperature: Store unopened containers in a cool, clean, dry area out of direct sunlight.

Shelf Life: One year when properly stored. Keep containers tightly sealed after opening to maintain shelf life freshness.

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

Packaging

5 gal (18.9 L) pails

VOC Content

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

Related Documents

Safety Data Sheets: MasterFinish PT 100 protective coating

Additional Information

For suggested specification information or for additional product data on MasterFinish PT 100 protective coating, contact your local sales representative.

Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

Limited Warranty Notice

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