

MASTERTOP® 1100

Epoxy Floor Coating (Formerly Embeguard 70/Corocrete 70)

DESCRIPTION:

MASTERTOP® 1100 is a high performance epoxy floor coating system. It may be used as topcoat, floor sealer or in conjunction with grit to form a non-skid surface. It cures to form a smooth, glossy surface finish. MASTERTOP 1100 is available in clear and light gray. Special colors available upon request. Consult your MBT representative for lead times and minimum quantities.

RECOMMENDED FOR:

- Areas around paper mill machinery.
- Chemical process areas.
- Mechanical equipment maintenance bays.
- Aircraft hangars.
- Food processing plants.
- Warehouse traffic aisles.

FEATURES/BENEFITS:

- Good chemical resistance.
- 100% solids.
- High gloss finish.
- Rapid curing system for fast start-up.
- Easy roller applied application.

PACKAGING/ESTIMATING:

MASTERTOP 1100 is packaged in 1.5 and 15 gal (5.7 and 21.6 L) units.

PERFORMANCE DATA:

Generic Type:	Polyamine cured epoxy
Volatile Organic Compounds (V.O.C.):	0 lbs/gallon
Viscosity (Mixed):	760 cps at 77 °F (25 °C)
Weight/Gallon (Mixed):	11.6 ± 0.2 lbs
Hardness, Shore D:	81
Flash Point (Seta Flash):	
Liquid	136 °F (58 °C)
Hardener	141 °F (61 °C)
Service Temperature Limits:	
Splash/Spill/Rinse (occasional)	180 °F (83 °C)
Splash/Spill/Rinse (frequent)	140 °F (60 °C)
Abrasion Resistance:	90 mg
(ASTM D 4060-84)	
Taber Abrasion	CS 17 Wheel - 1000 gm, 1000 cycles

Tensile Bond To Concrete: 450 psi
(ASTM D 4541)
(Approximate Time)

	50 °F (10 °C)	77 °F (25 °C)	90 °F (32 °C)
Working Time	120 min	50 min	25 min
Drying Time	24 hrs	15 hrs	7 hrs
Time to Light Traffic	48 hrs	24 hrs	16 hrs

Chemical Resistance

Dilute Inorganic Acids:	Excellent
Dilute Organic Acids	Good
Alkalies	Excellent
Automotive/Petroleum	Excellent
Food (Meat/Beverage)	Excellent
Salt Solutions	Excellent
Aromatic Solvents	Good
Aliphatic Solvents	Excellent

Rating Guide

Excellent= Suitable for frequent exposure
Good= Suitable for short-term exposure (splashes, spills, etc.)

SHELF LIFE:

Shelf life for material is one year minimum, if kept tightly sealed.

Coverage is 200 ft²/gal (4.9 m²/L) @ 8 mil DFT. Each coat requires application of 8 mils wet film thickness per coat (two coats are recommended).

Mix Ratio: 2:1 Liquid to Hardener by volume
Thinning: DO NOT THIN

LIMITATIONS:

- Do not apply MASTERTOP 1100 when the surface temperature is below 50 °F (10 °C).
- Cracks and holes in concrete should be repaired prior to application of MASTERTOP 1100.
- The floor surface must be structurally sound, free from hydrostatic pressure, contaminants, curing compounds or other materials which will prevent adhesion.
- Whenever the concrete surface is porous, which will cause entrained air to blister the coating, a primer such as CEILCOTE 680 PRIMER should be used.

APPLICATION: (ABBREVIATED)

Surface Preparation:

Steel - For immersion or high temperature service, a "White Metal" sandblast (SSPC #5-89 or NACE #1) is required with a minimum anchor pattern profile of 3 mils.

Concrete - Grit blasting or scarification to remove laitance and surface contaminants is required. Concrete must be thoroughly cured, free of oils, curing solutions, mold release agents and dust and must be dry at time of application.

Placement:

1. Mix Part A and Part B together for 2 to 3 minutes to ensure thorough blending. For best results, use a mechanical Jiffy type mixer operated at low speeds (200-250 rpm).
2. Using a brush or roller, spread MASTERTOP 1100 evenly across the surface at the recommended coverage rate. The second coat may be applied when the first coat is tacky, but not dry.
3. When skid-resistance is required, broadcast sharp, clean grit into the coating while still tacky. A general guideline using 20 to 40 mesh, sharp, light silica sand is as follows:
 - Slight Non-Skid**
0.10 - 0.25 lb/ft.² (0.49 - 1.22 kg/m²)
 - Heavy Non-Skid**
0.25 - 0.75 lb/ft.² (1.22 - 3.66 kg/m²)
 - Dense Packed for Thick Buildup**
0.75 - 1.0 lb/ft.² (3.66 - 4.88 kg/m²)
4. Brush excess grit off after coating is completely set.
5. Apply topcoat, repeating steps 1 and 2.

SAFETY:

FOR INDUSTRIAL USE ONLY!

MASTERTOP 1100 components contain epoxy resins and polyamine catalyst. Store in cool, dry area [50 °F - 90 °F (10 °C - 32 °C)] away from direct sunlight, flame or other hazards.

During application of MASTERTOP 1100 materials, always wear gloves and appropriate work clothing to minimize contact. Ventilation is required with special consideration for enclosed or confined areas. Air movement must be designed to ensure turnover at all locations in work area and adjacent areas to avoid buildup of heavy vapors. Use caution when handling flammable liquids. Eliminate sources of ignition and containers with residues from work area.

Observe safe storage practices by separating resins from hardeners and keeping solvents in a cool area free of sources of ignitions.

Product Material Safety Data Sheets are available and should be consulted when handling products. These products are for industrial and professional use only; application directions must be followed.

MAINTENANCE:

Periodically inspect the applied material and repair localized areas as needed. Consult your Master Builders Representative for additional information.

TECHNICAL ASSISTANCE:

For technical assistance please contact your Master Builders representative.

JOB SITE SERVICE:

To the extent job site services are provided, such services are in the nature of technical recommendations only and will not include (i) supervision or (ii) quality control of the application procedures and engineering details.

WARRANTY:

Master Builders warrants that its products are free from defects in manufacture for a period of one (1) year from date of purchase, if installed prior to expiration date and applied and used in accordance with Master Builders most current published specifications applicable to such products. MASTER BUILDERS EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE. MASTER BUILDERS DISCLAIMS ALL LIABILITY FOR INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES OF ANY NATURE WHATSOEVER. This warranty cannot be changed or modified whether by course of dealing, custom or trade or otherwise, unless agreed to in writing by Master Builders, Inc.

RELATED BULLETINS:

Material Safety Data Sheet – MASTERTOP 1100

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