



PRODUCT DATA

Wearcoat 106 MCU

Coatings For Industry, Inc. • 319 Township Line Road, Souderton, PA 18964 / 215-723-0919

Description

One package aromatic urethane sealer for concrete or wood floors.

Colors

Amber colored clear.

Packaging

One and five gallon containers.

Also packaged as a pre-cut penetrating sealer labeled "Wearcoat 106 MCU, REDUCED".

Uses

Wearcoat 106 MCU is recommended for use in warehouse and factory facilities where a protective coating is needed to stop dusting and wear of concrete due to traffic and chemical attack. It is particularly useful in electronic assembly plants where cement dust cannot be tolerated in equipment.

Wearcoat 106 MCU forms an extremely hard, chemical resistant film which has exceptional wetting properties to porous substrates. It will penetrate concrete very readily and will actually develop a reinforcing bond at the substrate interface.

This coating has excellent toughness and superior resistance to abrasion plus excellent solvent, acid and alkali resistance. For use on concrete and wood floors in industrial plants which are subjected to heavy wear and intermittent strong chemicals. This coating will prevent dusting when applied directly over new or old dry concrete. Wearcoat 106 MCU is not ultraviolet stable and, therefore, will darken when used on exterior applications or where exposed to sunlight. Use is limited to areas where a color change is not critical and can be tolerated. This darkening affect, however, does not detract from the outstanding properties of the coating film.

Wearcoat 106 MCU REDUCED is also used as a penetrating primer/sealer for concrete floors when Wearcoat two-component urethane floor finishes are specified. Refer to related data sheets.

This coating also is an excellent concrete form release agent for plywood and wood forms as it possesses excellent surface hardness, chemical and abrasion resistance. Wearcoat 106 MCU will greatly extend the number of pours obtainable from

wooden concrete forms and, at the same time, reduce clean up and recycle time. It is free of oils, waxes and lubricants and, therefore, can be used on concrete forms when it is intended to paint the cured concrete surfaces.

Surface Preparation

WOOD FLOORS: After sanding, clean the surface of all dust and dirt and apply a thinned coat of floor sealer (Wearcoat 106 MCU reduced with 1 gallon of Wearcoat-106 REDUCER) or a coat of Wearcoat 106 MCU REDUCED as supplied. Allow to dry 3 to 4 hours, then apply a coat of Wearcoat 106 Floor Sealer as received at package consistency.

CONCRETE FORMS, WOOD: Prepare and seal as above. Apply second and subsequent coats, if required, as previous coat reaches tack-free state (usually within 1-3 hours). Wearcoat 106 MCU may be applied by brush or roller (short nap) at viscosity supplied. Apply at the rate of 200 to 300 square feet per gallon and allow to set at least 24 hours before placing forms.

CONCRETE FLOORS: For a protective coating over concrete, the surface should be thoroughly cleaned and free of dust, oil, or any surface contamination. The concrete should then be abrasive blasted or acid etched for maximum adhesion. For hard dense concrete use approximately a 15% solution of muriatic acid (hydrochloric). For softer concrete (wood floated) use approximately 7% muriatic acid. In either case, a foaming action should occur. When foaming has stopped, flush thoroughly with clean water. Remove all water by mop, squeegee or wet vacuum. Surface must be **thoroughly dry** before applying Wearcoat 106 MCU. Apply first coat reduced (1 gallon Wearcoat 106 MCU Sealer to 1 gallon W-106 MCU REDUCER). Allow to dry 1 hour and apply second coat of sealer at package consistency. Depending on porosity of substrate a third coat may be required. This coat should be applied as previous coat reaches tack-free state (usually 2 to 3 hours) and, in all cases, must be applied within six hours of the previous coat. Should Wearcoat 106 MCU be allowed to cure to hard dry between coats, it must be lightly abraded prior to recoating. Be aware that high temperature and/or high humidity will accelerate the cure rate of this product.

Wearcoat 106 MCU can withstand light traffic after 12 hours drying time.

Technical Data

Volume Solids, W-106	60% ± 2%
W-106 MCU REDUCER	30% ± 2%
Number of Coats	Two Minimum (first coat is reduced). Use multiple coats on concrete forms or to build high-gloss floor finish.
Film Thickness, per Coat:	2 mils dry (3.3 mils wet) per coat, minimum 3.5 mils dry (5.8 mils wet) per coat, maximum Apply reduced version at a spreading rate of 400 sq. ft. per gallon
Theoretical coverage @ 2 mils DFT:	480 sq. ft./gallon
Drying Time @ 75°F., 50% R.H.: (Drying time will vary depending upon temperature & humidity)	To touch – 0.7 hours Tack free – 1.25 hours Hard dry – 3.00 hours Mar free – 4.5 hours
Recoat time: (Should be recoated as previous coat reaches tack-free state)	45 minutes minimum 6 hours maximum
Primer:	Wearcoat 106 MCU REDUCED- Self priming on porous substrates.
Thinner:	W-106 MCU REDUCER
Cleanup solvent:	CFI 711 or CFI 704 CLEANER, lacquer thinner, AROMATICS 100
Minimum application temperature:	25°F. or within 10° of dew point
Maximum service temperature:	250°F.
Flash point:	107°F.
Shelf Life:	6 months, if unopened
Fire resistance of film:*	Self-extinguishing

*NOTE: Although this coating is not a fire-retardant product, it will not support combustion and will self-extinguish when the source of fire is removed.

Application

Wearcoat 106 MCU may be applied by brush or roller (short nap). Spray application is not recommended. This coating is moisture curing and it is extremely important that the surface be free of all moisture prior to coating application. Also, the coating should dry for a minimum of one hour at 75°F. and 50% R.H. prior to being subjected to moisture (rain), longer at lower temperatures and relative humidity.

CAUTION: For application in confined areas where poor air circulation exists, a fresh air supplied mask should be worn. In all cases, observe OSHA Regulations for Respirator Use (29CFR 1910.34) whenever a respirator is used. It is important that droplets of paint not be inhaled. Refer to Material Safety Data Sheet.

IMPORTANT: Clean equipment immediately after use. If coating is allowed to harden on equipment, an industrial paint stripper is required to remove it.

Use only new brushes or rollers for application of Wearcoat 106 MCU.

RESTRICTIONS:

Extremely high relative humidity (85% or higher) may cause rapid cure and result in the film clouding or bubbling, particularly in heavy films. In all cases, water must be kept from film until dry at least 8 hours.

As Wearcoat 106 MCU is a rapid curing system, it is important to recoat within a very narrow recoat schedule. Otherwise, it will be necessary to scuff sand or otherwise abrade between coats. Wearcoat 106 MCU should be recoated, ideally, as each previous coat reaches a tack-free state (generally within 1-3 hours-never beyond 6 hours). Work must be scheduled accordingly.

It is important to thin only with W-106 MCU REDUCER since it is a moisture free solvent blend.

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