



TOA - UNION PAINT

TU-5000 Union PU1K Moisture cure

Product Code: MC03 (5000)

Product Description

Moisture Cure Polyurethane High Gloss is an extremely tough, flexible and hard wearing clear finish especially suited to timber, parquet, cork, particle board and concrete flooring, particularly in high traffic areas. It is also suitable for interior timber furniture, skirting boards, doors, halls, bar tops and other areas subject to spillage.

Recommended Uses

Gymnasiums, Commercial floors, Interior Hardwood Floors, Cured Concrete Slabs, Dance floor
Moisture cure is ideal for high traffic commercial and residential floors where maximum performance and durability is desired.

Features

- Highly abrasion resistant
- Extremely durable
- Superior gloss finish
- Excellent flow and levelling results in smooth finish
- Enhances the natural color of the

Product Information

Composition	One-component moisture-curing polyurethane resin
Thinner	1113, 11M1
Finish	Clear
Specific gravity (15/4°C)	0.95-1.05 g/cm ³
Solid	Approx. 43-47 % by mass
Drying time	Touch dry : 30 min and Hard dry : 3 hrs.
Coating System	2 - 3 coat of TU-5000
Mixing	TU-5000 : Thinner = 8 : 2
Rate	These figures are intended as a guide. The actual coverage will depend on a number of factors, including timber porosity, surface condition, moisture content, method of application and climatic conditions during application.



TECHNICAL DATA SHEET

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Film properties

Checking item	TU-5000
Drying time (hr. : min) Set to touch Surface dry Hard dry	 0:09 0:30 2:45
Setting time : 5 days	
Film properties on wood Gloss (60°C) Hardness (pencil, by hand, broken) Adhesion (Cross-cut, 2 x 2 mm.) Hot water resistance	 100 3H 25/25 Excellent
Chemical resistance (spot test) 20% NaOH (RT x 4 hr.) 5% NaOH (RT x 24 hr.) 5% H ₂ SO ₄ (RT x 48 hr.) 5% HCl (RT x 4 hr.) 5% HNO ₃ (RT x 4 hr.) Xylene (RT x 2 hr.)	 Excellent Excellent Excellent Excellent Excellent Excellent Excellent
Water resistance (dip, RT x 72 hr.) (dip, RT x 72 hr.)	 Excellent Excellent
Stain resistance Black magic pen (RT x 24 hr.) Blue magic pen (RT x 24 hr.) Red magic pen (RT x 24 hr.)	 Excellent Excellent Excellent

Directions for Use

Surface preparation: Cleanliness of the substrate is of extreme importance for the successful application of a conformal coating. Surfaces must be free of moisture, dirt, wax, grease, flux residues and all other contaminants. Contamination under the coating could cause problems that may lead to assembly failures.

Clean: To flush equipment and clean uncured TU-5000 Polyurethane, solvents should be used.



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Application

Conditions	Avoid application in direct sunlight. Do not apply if there is a risk of rain, or when rainfall is expected within 12 hours, or if the relative humidity is above 65% during application or drying periods.
Initial Procedure	Shake or stir contents before and periodically during use. To ensure absolute color uniformity from container to container. Do not thin product.
Applying the Product	should be applied in a full flowing coat, working well into joints and ensuring end grains or sawn timbers are coated to saturation.
Cleaning Equipment	Clean equipment with a solvent immediately after use. If spilled. The product should be removed immediately whilst still wet.

Maintenance

A simplified definition of maintenance coatings is "the recoating of any existing coated substrate surface to prevent corrosion or to maintain appearance."

Packaging

Available in 1 Gallon, 200 Lt, ¼ Gallon

Transport and Storage

Transport	TU-5000 Polyurethane is not considered hazardous under department of transportation regulations. Keep product in darkness.
Storage	MC Polyurethane is a moisture curing material and care should be taken to protect vessels and partial containers from moisture. Partial containers must be purged with a dry, inert gas such as dry air, nitrogen or argon before closure, otherwise premature polymerization by atmospheric moisture will occur.

Cautions

The following is a summary of the precautions to be taken when handling this product. Please refer to the Safety Data Sheet for further details.

The toxicological properties of this material have not been fully determined. Products of this type can be expected to be eye and skin irritant and have the potential to cause sensitization or other allergic responses.

Appropriate precautions should be taken to avoid eye and skin contact and to avoid

Limited warranty

Our recommendations for use of this product are based upon tests believed to be reliable. Since field conditions vary widely, the user must determine the suitability of the product for the particular use and specific method(s) of application. However, as the product is often used under conditions beyond our control, we cannot guarantee anything other than the product itself. We reserve the right to change the given data without notice.