



PU1 HARD GLAZE

WATER-BASED SINGLE-PART HARD-WEARING PU COATING

USES

1. Industrial flooring, warehouse floors and helipads
2. Carpark decking and residential garages
3. Dairy and hotel industry and non-slip ramp-ways
4. Pedestrian walkways and food processing plants
5. Trafficable roofs and bridge decks

FEATURES

1. Water-based, U.V. stable high performance aqueous aliphatic polyurethane floor coating for various industries
2. **Moh's Hardness Rating of 5.0** provides outstanding abrasion, impact and chemical resistance coupled with high degree of flexibility. PU1 is micro-porous, allowing the substrate to breathe, unlike solvent based systems.
3. Polyurethane pre-mixed hard-wearing yet flexible surface coating designed for the long term protection of industrial floors in factories, warehouses, carpark decks, dairies, breweries and hygienic coatings for pharmaceuticals where long term maintenance-free protection is required.
4. Produced to a silk sheen for maximizing light reflectivity whilst being easy to clean; has non-slip characteristics and reduction of glare
5. Optimum visibility of direction, line and parking bays and speed bump markings
6. Adhesion to sub floor is not affected by moisture, as it is a breathable water-based system unlike its counterpart solvent-based systems and is available in different shades

KEY CHARACTERISTICS

1. Excellent wear, abrasion and impact resistance
2. Excellent dust proofing properties
3. Excellent crack bridging properties
4. Excellent flexibility, adhesion and durability
5. Excellent resistance to carbon dioxide permeation; outstanding water, alkali and chemical resistance
6. Suitable for use on bituminous, cementitious and resinous substrates
7. Hygienic, non-tainting and U.V. stable
8. Suitable for micro-porous, vapor permeable and breathable coatings
9. Non-toxic, non-flammable, solvent-free and eco-friendly
10. Waterproof and seamless coating



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APPLICATION METHOD

1. Newly cast cement needs to be fully cured for 30 days to reduce alkalinity that causes paint blisters.
2. Roll on with short hair roller. Coverage: 4 m² / kg for 2 coats (0.3 mm thickness).
3. **Self-Levelling Screed:** on powdery surfaces, it is best to apply a coat of sealer before applying PU1; otherwise, peeling of the coating will occur.
4. **Steel surfaces:** Sand-blast to above Sa 2.5 degree, or polish to St3 class with electric tools.
 - Ensure that the previous coat is completely dry before application of next coat.
 - Apply evenly ensure a regular film thickness.
 - Apply a final glossy or matte clear top coat with clear PU1 coating as needed.
 - Allow curing time of approx. 72-120 hours depending on weather conditions before allowing traffic or any further works.

CHEMICAL RESISTANCE

PU 1 Hard floor coat will resist spillages of:

1. Mineral oils, kerosene, gasoline and brake fluids
2. Most organic solvents and high octane aviation fuels
3. Dilute acids like hydrochloric, nitric, phosphoric and sulfuric
4. Diluted alkali solutions like sodium hydroxide, detergent etc.
5. Fats, oils and sugars

TECHNICAL DATA

- Specific gravity: 1.25
- Abrasion resistance (ASTM D4060): 120 mg weight loss / 1000 cycles.
- Impact resistance (BS 2782): No failure (2 lbs. load dropped 18 ins)
- Elongation (ASTM D412): 200%
- Scrub resistance (ASTM D2486): greater than 10,000 cycles
- Scratch resistance (BS3900): No failure 5.5 lbs. load
- Humidity resistance (BS 3900): Un-effected 6000 hrs. exposure
- Water absorption (CP.BM 2/67/2): Nil



COLOR

Clear, Grey

PACKING

5-kg pail, 20-kg pail

Disclaimer:

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