Technical Data Sheet

ULTRATHANE PU-HB

Polyurethane Sealer

75% solids, high gloss, aliphatic, fast curing.

DESCRIPTION

PU-HB Polyurethane is a high-gloss finish that has excellent durability and fast curing. While it works as a clear coating, PU-HB can also be tinted. Having great UV resistance properties, it is perfect as a tinted base coat for flake or as a roll coat system that will be exposed to UV light.

USES

Residential and Commercial Floors - Garage and Workshop Floors - Decorative Flake Flooring

ADVANTAGES

Easy to apply - UV resistance – Great scratch resistance and flexibility – Easy to clean

PRODUCT DATA

Volume Solids	75%
Theoretical Coverage	8 m² /L @ 94 Microns DFT
Finish	Clear or Pigmented
Colour	Colourless
Gloss	Gloss
Mixing Ratio	4:1 by volume
Pot life	2 Hours @ 25°C
Typical Thickness	60 - 94 Microns DFT (80 - 125 Microns WFT)
Cleaner	Solvent B
Flash Point	22°C
VOC	317.4 Grams/Litre
Specific Gravity	1.008

CURE & RECOAT

Substrate Temp	Tacked	Hard Dry	Full Cure	Minimum Recoat Time	Maximum Recoat Time
10°C	8 Hrs	15 Hrs		24 Hrs	3 Days
15°C	4 Hrs	10 Hrs		16 Hrs	2 Days
25°C	2 Hrs	6 Hrs	3 Days	12 Hrs	24 Hours
40°C	1 Hr	4 Hrs		6 Hr	12 Hours

Notes: *If the maximum recoat time is exceeded the coating must be sanded before applying the next coat

LIMITATIONS

- Always read SDS before using any product
- Tyres may mark this coating. A test on site should determine the coatings tyre-marking resistance to a particular type of tyre
- Pot life is dependent on mix temperature
- Thin-film dry times are dependent on temperature and film thickness
- Thicker films will take longer to cure through
- Higher cure temperatures and direct exposure to the sun will shorten the recoat times

APPLICATION

SURFACE PREPARATION

- The concrete should be at least 28 days old.
- Ensure that the moisture content of the concrete is less than 7% before applying any coatings. A moisture test as outlined in ASTM D4263 ‘Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method’ can be used to confirm the moisture content.
- Prepare concrete surface through abrasive blasting, mechanically grinding it or floor shot blasting. Any laitance or other invisible contaminants must be removed. Ensure that the concrete surface is clean, dust free and dry.

MIXING

- Always stir PU-HB Clear or Pigmented Part A well before use.
- Mix (by volume) 4 Parts of PU-HB Clear or Pigmented Part A with 1 Part of PU-HB Polyurethane Clear Part B hardener (4:1). Do not vary from this ratio.
- Please refer to the table below for examples of Part A and Part B volumes needed to achieve your desired total mixed quantity.

Base Coat	1L	2L	3L	4L	5L	6L	7L	8L
4 Parts A	0.80L	1.60L	2.40L	3.20L	4.00L	4.80L	5.60L	6.40L
1 Part B	0.20L	0.40L	0.60L	0.80L	1.00L	1.20L	1.40L	1.60L

Base Coat	9L	10L	11L	12L	13L	14L	15L	20L
4 Parts A	7.20L	8.00L	8.80L	9.60L	10.40L	11.20L	12.00L	16.00L
1 Part B	1.80L	2.00L	2.20L	2.40L	2.60L	2.80L	3.00L	4.00L

ENVIRONMENT

Relative humidity:	The relative humidity must be less than 85%
Dew point:	The substrate temperature must be at least 3°C higher than the dew point temperature
Substrate Temperature:	The substrate temperature must be a minimum of 5°C

THINNING

C3 Solvent B Thinner may be used to thin PU-HB. Depending on the application equipment and finish desired, thinners may be added to a maximum of 40% of the mixed Part A and Part B solution.

If thinning PU-HB please ensure that mixing Part A and Part B is complete.

APPLYING TO CONCRETE

Mix all components well and apply with a suitable paint roller or air spray equipment. Apply an initial priming coat of PU-HB sealer to soak in and seal the concrete. Cross roll to roll out any areas with excess sealer. Apply second coat of PU-HB. The maximum self-recoat time of PU-HB is 24 hours at 25°C. PU-HB must be sanded if the maximum recoat time is exceeded.

STORAGE & HANDLING

Store in dry, shaded conditions away from sources of heat and ignition and in properly sealed containers. Protect from heat and frost. Protect contents from moisture. A shelf life of 12 months minimum is typical with unopened containers if stored at ambient conditions at 25°C. If either component is opened and partially used, it should be purged with nitrogen or desiccated air and resealed.

PACK SIZE

PU-HB is available in 5,10 & 20L kits.

HEALTH AND SAFETY

PU-HB is for professional use only. PU-HB is flammable. This product should not be used without consulting the Safety Datasheet (SDS) as published on the Concrete Chemical Co website first.

For emergencies, please contact 24 -hour mobile 0413 075 994.

MANUFACTURER'S COMMENT

Use with any other manufacturer's product could result in detrimental effects on the product's performance for which Concrete Chemical Company holds no responsibility, and Concrete Chemical Company cannot be held responsible for failure to follow application instructions. Concrete Chemical Company is continually updating materials and methods. Ensure you have the latest information.

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