

# Duratop PUD

Optima Coatings Duratop PUD is a two-component, water-borne, polyurethane topcoat. Duratop PUD has been specifically formulated to provide a highly durable, clear coating with a semi-matt finish. Duratop PUD is UV resistant and has good mechanical properties as well as having good chemical resistance against water, alcohols, salt solutions and petrol.

**Colours:** Clear. Can be pigmented to other colours volume dependant.

## PRODUCT USES

- A topcoat for sealing/maintenance coat of polyurethane and epoxy coatings.
- Used to seal epoxy or polyurethane screeds.

## ADVANTAGES

- Solvent Free - environment and user friendly.
- Excellent mar resistance.
- Matt finish which has the effect of de-accentuating existing surface imperfections due to poor finishing.
- Good resistance to car-tyre contamination/hot tyre pickup.
- Easy cleaning - good stain resistance to coffee, shoe polish and mustard.
- Long pot life.

## COVERAGE

- 8 - 10 m<sup>2</sup> per litre per coat at an average dry film thickness of 50 microns per coat. Applied in a 2 coat application.

## SURFACE PREPARATION

- The substrate must be firm, dry, and free from dust and grease. If necessary, employ mechanical cleaning methods and equipment.
- It is advisable to check bonding on unfamiliar surfaces. Older coatings must be abraded using a 40-80 grit sand paper.
- If overcoating polyurethane/ epoxy screeds or self levelling products it is advisable to confirm minimum and maximum intercoat overcoating times so as to ensure an adequate bond.

**APPLICATION**

- The components must be thoroughly mixed until a homogeneous mixture is obtained. Mechanical mixing equipment should be used to ensure a good mix. Use a drill with less than 400 r.p.m speeds and avoid air incorporation into Optima Coatings Duratop PUD (Jiffy type stirrer is ideal).
- After mixing, transfer the mixed material into a new container for application. Do not dilute with water.
- Opened containers must be closed immediately to prevent evaporation and skin forming.
- It is advisable to use opened containers as quickly as is possible and completely.
- Duratop PUD clear must be applied with a virgin mohair roller thin and evenly.
- Protect the surface against traffic and spillage until cured.
- Don't dilute with solvents.
- Pinholes can lead to a loss of adhesion, e.g. areas subjected to water ponding.
- Applications thicker than 150 µm WFT are not recommended.
- Localised higher thickness can change the transparency and produces small bubbles.
- Extended applications should be worked within 8-10 minutes at the latest, otherwise tracks may be visible.

**CLEANING**

- Clean tools and equipment using water immediately after use.
- For dried material, use Optima Coatings MEK or Xylene thinners before full cure is affected.

**SAFETY PRECAUTIONS**

- At least 12 months in original, unopened containers.
- Store in cool (5°C up to 20°C) and dry conditions. Not frost resistant.
- Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The safety data sheet is available from your local Optima Coatings Technical Sales Consultant.

## TECHNICAL DATA

Pack Size	5 litre
Number of components	Twin pack
Mixing ratio base: activator	5:1
Density (typical)	1,049g/cm <sup>3</sup>
Volume solids	40%
Colour Base	Milky
Activator	Clear
Flash point	Water based
Dilution	Do not dilute
Mixed viscosity	175 cP
Pot life	Approx. 5 ½ hrs
Drying time @25°C	50% RH
Touch:	2hrs
Hard:	24 hrs
Full cure:	7 days
Over coating time @25°C	
Minimum:	6 hrs
Maximum:	24 hrs
Application temperature range	10°C to 25°C
Do not apply coating if humidity is in excess	85% @ 21°C 75% @ 10°C
Do not apply coating if the substrate temperature is at least 5°C above dew point	
Induction time	15 minutes
Fire resistance of wet film	Not flammable
Finish	Semi- Matt
König Pendulum Hardness:	
4-7 days cure	100 - 120 (s)
UV Resistance	Good
Durability	Good
Solvent resistance	Good resistance to aliphatic solvents and alcohols
Chemical resistance	Good resistance to spillages of most dilute solutions of acid and alkalis.
Resistant to cleaning chemicals at recommended dilutions.	

*Technical details above are provided in good faith. We are an ISO 9001: 2008 registered company and our products are manufactured to the highest standards using raw materials of superior quality. Consequently we believe in the quality of our products and will willingly replace any product in the unlikely event of a quality related performance failure. Whilst we are confident in guaranteeing the quality of our products, we cannot however accept any liability for performance failure due to the incorrect application of our products. Correct application is critical to the successful performance of our products and as this process falls outside of our control we are unable to cover the application under our product performance warranty. Where there are doubts, it is recommended that the user conduct their own suitability tests before use. To retain sheen and colour consistency of your paint, always make sure that the batch numbers are the same on all paint containers that you purchase.*

*Updated: May 2014 (this supercedes all previous publications)*