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a.b.e.® Construction Chemicals

abe.®cote PUD Clear

WATER BASED CLEAR POLYURETHANE TOP COAT

DESCRIPTION

abe.®cote PUD clear is a two component solvent free water borne polyurethane coating formulated to provide an ultra durable clear coating with a gloss or matt finish.

abe.®cote PUD clear is uv resistant with good mechanical properties and good chemical resistance against water, alcohols, salt solution and petrol.

USES

abe.®cote PUD clear is essentially used as a top coating for sealing/maintenance coat of PU and EP coatings. **abe.®cote PUD clear** offers a very good cleaning effect and resistance to car tyre contamination (black heel marking – BHM).

ADVANTAGES

- Environmentally and user friendly (solvent free).
- Excellent mar resistance.
- Gloss finish.
- Easy cleaning – good stain resistance to coffee, shoe polish and mustard.
- Long pot life.

PROPERTIES OF WET MATERIAL

Mixing ratio base: activator	5:1
Density (typical)	1.037 (mixed)
Volume solids	31.5%
Colour	Base is milky Activator is clear
Flash point	Water based
Dilution	Do not dilute
Mixed viscosity	40 cP

PROPERTIES DURING APPLICATION

Pot life	Approximately 6 hours
Drying time @ 25 °C 50% RH	Touch: 2 hours Hard: 24 hours Full cure: 7 days
Over coating time @ 25 °C	Minimum: 6 hours Maximum: 24 hours
Application temperature range	10 °C to 25 °C
Do not apply coating if humidity is in excess of 85% @ 21 °C or 75% @ 10 °C.	
Do not apply coating if the substrate temperature is at least 3 °C (5 °C is better) above dew point.	
Induction time	15 minutes
Fire resistance of wet film	Not flammable
Dilution	Do not dilute

PROPERTIES OF DRIED FILM

Finish	Gloss or Matt
König Pendulum Hardness: 4 – 7 days cure	100 – 120 (s)
UV Resistance	Good
Durability	Good
Solvent resistance	Good resistance to aliphatic solvents, alcohols and Skydrol
Chemical resistance	Good resistance to spillages of most dilute solutions of acid and alkalis
Resistant to cleaning chemicals at recommended dilutions.	

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 sanded.

MIXING

The components must be thoroughly mixed until a homogeneous mixture is obtained. To ensure good mixing, mechanical mixing equipment should be used (below 400 rpm) and avoid air incorporation (Jiffy type stirrer is ideal).

APPLICATION

After mixing, transfer the mixed material into a new container for application. For top coat sealing it is not necessary to 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.

abe.®cote PUD clear gloss is applied with a virgin mohair roller thinly and evenly.

Note:

1. Don't dilute with solvents.
2. Pinholes can lead to a loss of adhesion, e.g. areas subjected to water ponding.
3. Applications thicker than 145 µm wft is not recommended.
4. Localised higher thickness can change the transparency and produces small bubbles.
5. Extended applications should be worked within 8 – 10 minutes at the latest, otherwise tracks may be visible.

COVERAGE

Recommended average dft per coat	40 µm
Theoretical coverage for above dft	9 m²/L
Wet film thickness at above	110 µm

COVERAGE	
Maximum recommended wft	125 µm
Practical coverage for estimating purposes	8 – 10 m²/L
Recommended number of coats	2

CLEANING OF EQUIPMENT

Use water immediately after use. For dried material, use **abe.® super brush cleaner** before full cure is effected.

PROTECTION/MAINTENANCE ON COMPLETION

Protect the surface against traffic and spillage until cured.

MODEL SPECIFICATION

Two component, water borne, gloss or matt polyurethane top coating. The coating will be **abe.®cote PUD clear gloss**, a two component water borne gloss or matt polyurethane top coating applied in accordance with **a.b.e.® Construction Chemicals'** recommendations, including necessary primers as directed.

PACKAGING

abe.®cote PUD clear is supplied in 5 L yield containers.

abe.®cote PUD clear matt (43901005)

abe.®cote PUD clear gloss (43903005)

HANDLING AND STORAGE

At least 12 months in original, unopened containers. Store in cool (5 °C up to 20 °C) and dry conditions. Not frost resistant.

HEALTH AND SAFETY

Product safety information required for safe use is not included. Before handling, read product and safety datasheets and container labels for safe use, physical and health hazard information. The safety datasheet is available from your local **a.b.e.® Construction Chemicals** sales representative.

IMPORTANT NOTE

This datasheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.® Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot – because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied – accept any liability either directly or indirectly arising from the use of **a.b.e.®** products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical datasheets should be consulted to determine total requirements. **a.b.e.® Construction Chemicals** has a wealth of technical and practical experience built-up over years in the company's pursuit of excellence in flooring and concrete technology.

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a.b.e.® is an ISO 9001:2015 registered company
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