Technical Data Sheet

AB-PUR® 721

2-C-PU-topcoat, coloured, silk gloss

Description:

2-component polyurethane topcoat, coloured
VOC < 500 g/l, contains solvents

Characteristics:

- tough-hard
- UV - resistant
- resistant to most tyre marks (rubber wheels)
- good coverage / high pigment content
- suitable for indoor and outdoor use
- high abrasion resistance
- easy to apply
- silk gloss finish
- inert and harmless once cured

Application:

AB-PUR 721 is a tough-hard topcoat that is coloured and has an aesthetic silk gloss finish. This solvent-based polyurethane topcoat is suitable for use on both the tough-hard **AB-PUR**- or **AB-ZEROPUR**- and the hard **AB-POX**- or **AB-ZEROPOX** - coating systems. Aliphatic polyurethanes are well known for their excellent chemical and abrasion resistance; also with them you can achieve a highly aesthetic **silk gloss** finish on most **ABP** - systems. The coated areas are easy to clean.

Due to the special formulation **AB-PUR 721** is relatively insensitive to tyre marks (rubber wheels or chemical softeners etc.). Please consult us.

Consumption:

approx. 0.15 - 0.2 kg/m², depending on colour and texture of the surface (1 - 2 x).

Resistant to:

- diluted acids and alkalis
- saline solutions
- wet temperature max. 40°C
- solvents (please consult us)
- lubricants and fuels
- dry temperature short-term 80°C

Technical Data:

Mixing ratio A : B	100 : 40 by weight (2.5 : 1)
Density (23°C)	approx. 1.20 g/cm³
Volume solids	approx. 55 %
Viscosity (23°C)	approx. 600 mPa·s ± 200
Abrasion (1000 g / 1000 rev.) acc. to Taber	40 mg

Details for application:

Pot life (12°C / 23°C / 30°C)	approx. 60 minutes / 45 minutes / 30 minutes
Substrate temperature	minimum 12°C up to maximum 30°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	at 12°C: 75 % (dew point +3°C) at > 23°C: 85 % (dew point +3°C)
Duration between applications (should the duration between coats be too soon, curing of the subsequent coat will be affected)	12°C: min. 16 hours max. 72 hours 23°C: min. 8 hours max. 48 hours 30°C: min. 4 hours max. 36 hours
Curing time / foot traffic (12°C / 23°C / 30°C)	36 hours / 24 hours / 16 hours
Curing time / mech. resistance (12°C / 23°C / 30°C)	96 hours / 48 hours / 48 hours
Curing time / chem. resistance (12°C / 23°C / 30°C)	7 days / 5 days / 4 days
All above values are approximate and may be used as a guideline for specifications	

Packaging:

8.75 kg - pails

Colour:

pebble grey approx. RAL 7032 (other colours are available on request)
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

Storage:

12 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C. At temperatures < 15°C crystallisation is possible. Please consult us.

1. Surface preparation
The surface that is to be sealed must be in a sound condition and of good quality in general. The self-levelling coating must have sufficiently cured to accept foot traffic. The surface must be clean, dry and free of oil, fat and other contaminants.
See also “general preparation and application instructions” sheet.

2. Application
Prior to mixing, the temperature of the components must be between 15 - 25°C. Mix the components in the correct ratio using a suitable low speed electric mixer (300 - 400 rpm) for at least 3 minutes or until a completely homogeneous mixture has been achieved. Put the mixed material into a clean container and mix again for at least 1 minute more. Distribute the mixture immediately onto the surface. To spread **AB-PUR 721** as an even coat use a rubber squeegee. To attain an acceptable finish use a suitable short-haired paint-roller (nylon, 6 - 8 mm). Avoid overlapping where possible. Only the use of a paint-roller may lead to a finish that has shadows; this is normally due to an uneven thickness (WFT). Should the application for any reason be interrupted, tape the edges of the applied material. After approx. 1 hour remove the tape, you will notice that a well defined seam has been created. Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

3. System description
The following figures are for ambient and surface temperatures of 15 - 23°C. Both high and low temperatures will influence the consumption per m².

Topcoat:
AB-PUR 721, pebble grey
Consumption: approx. 0.15 - 0.2 kg/m².

If a slight anti-slip finish is required we propose that surface is coated with **AB-PUR 721**, this will seal it. To follow, using compressed air; spray **AG-SB 1922** into the coating. Finish using a short-haired paint-roller.

Professional maintenance will increase the service life of the flooring system.

N/B:
Mechanical wear and tear can affect the aesthetic quality of the surface (pale scratch marks). In time the surface will become marked.

4. Chemical resistance

Acetic acid 5 %	resistant
Acetic acid 10 %	short-term
Ammonia 5 %	resistant
Boric acid 4 %	resistant
Citric acid < 10 %	resistant
Distilled water	resistant
Formaldehyde 37 %	resistant
Formic acid 2 %	resistant
Formic acid 5 %	short-term
Hydrochloric acid 10 %	resistant
Hydrochloric acid 30 %	short-term
Lactic acid 10 %	resistant
Methylene chloride	short-term
Nitric acid 10 %	resistant
Petrol / Super	resistant
Phosphoric acid 25 %	resistant
Saline solution	resistant
Sodium lye 50 %	resistant
Sulphuric acid 40 %	short-term
Tannic acid solution	resistant
Xylene	short-term

Tested on EP- and PUR- coatings, because there is a direct correlation between the topcoat thickness, and the chemical resistance of the coating layer. Whether discolouration did occur was not considered.

5. Packaging
8.75 kg - sets
6.25 kg component A
2.50 kg component B

6. Health and safety
GISCODE: PU50
AB-PUR 721 contains solvents. Should there be insufficient ventilation, wear suitable respiratory equipment. Avoid inhalation of the vapours and contact with skin. Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When using do not eat, drink, smoke and keep away from sources of ignition. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Safety Data Sheet.

7. EU Directive (“Decopaint-RL”):
Acc. to the EU Directive 2004/42/EG the maximum allowed content of VOC (Product category AII / j / type SB) is 500 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.

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