

Technical Data Sheet



AB-PUR® 366 2-C-PU-parking deck coating

Description: 2-component polyurethane coating, coloured
VOC < 500 g/l

- Characteristics:**
- tough-elastic
 - self-levelling
 - sand does not migrate through the coating
 - **2 in 1** coating / membrane and wear coat / course
 - up to 80 % natural / renewable raw materials
 - high chemical resistance
 - high mechanical resistance
 - crack-bridging (0.5 mm static)
 - flexible at low temperatures
 - inert and harmless once cured

Application: **AB-PUR 366** is a unique product that via its application becomes a **"2 in 1" system** for use in parking garages, galleries, terraces and cold storage rooms / facilities. **Two functional coats are achieved in one working step.** Immediately after application the coating surface must receive broadcast / spread quartz sand (Ø 0.4 - 0.8 mm). In so doing, it creates an **underside coat / membrane** (the sand in a unique manner does not migrate through the entire coating) **and on top** a broadcast quartz sand **wearing coat**. This product and its application will save critical time; it negates the problem of adhesion between different materials and reduces the consumption of quartz sand. **AB-PUR 366** must always be sealed using **AB-POX 481** or **AB-PUR 211** to optimize the abrasion and chemical resistance of the surface.

Consumption: approx. 3 kg/m².

- Resistant to:**
- salt water / sewage
 - passenger vehicle traffic
 - petrol
 - see list of chemicals that it is resistant to
 - steel work platforms that vibrate
 - static cracks up to 0.5 mm

Technical Data:

| | |
|---------------------------------|--|
| Mixing ratio A : B | 100 : 25 by weight (4 : 1) |
| Density (23°C) | approx. 1.30 g/cm ³ |
| Volume solids | approx. 100 % |
| Viscosity (23°C) | approx. 4000 mPa·s ± 1000 |
| Elongation at break (DIN 53504) | membrane coat approx. 150 % wearing coat approx. 50 % |

Details for application:

| | |
|--|--|
| Pot life (12°C / 23°C / 30°C) | approx. 40 minutes / 25 minutes / 15 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) |
| Curing time / foot traffic (12°C / 23°C / 30°C) | 24 hours / 16 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 / 5 days |
| All above values are approximate and may be used as a guideline for specifications | |

Packaging: 30 kg - pails

Colour: pebble grey approx. RAL 7032
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

Storage: 6 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

Prior to the application the substrate must be prepared by mechanical means using qualified equipment e.g. Blastrac® shot blasting.

Minimum requirements:

- free of cement laitance, dust, oil, fat and other contaminants

- open textured, absorbent surface

- pull off strength min. 1.5 N/mm²

- concrete residual moisture max. 4 %

Depending on the condition of the substrate the surface must be made non-porous by the application of a primer and / or key coat using **AB-POX 002**, followed by a light sprinkle of clean, dry quartz sand \varnothing 0.1 - 0.4 mm.

On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, AB-POX 010 must be used.

Once cured, carefully remove excess sand. 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 apply use a notched trowel (rubber or metal). Spread **AB-PUR 366** as an even coat ensuring uniform thickness.

The freshly applied coating should be finished off with a spiked roller within 5 minutes to achieve an excellent surface and to remove bubbles. Afterwards the surface must be evenly broadcast / sprinkled with clean, dry, tempered quartz sand \varnothing 0.4 - 0.8 mm. Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

AB-PUR 366 can also be applied to substrates that are at minimum temperatures +5°C, however in these conditions the consumption, application and curing will be affected in a negative manner.

3. System description

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

Primer:

AB-POX 002, clear

Consumption: approx. 0.3 - 0.5 kg/m², lightly sprinkle with clean, dry quartz sand \varnothing 0.4 - 0.8 mm (approx. 0.5 kg/m²).

Key coat:

AB-POX 002 + quartz sand

Consumption: approx. 0.6 kg/m² resin plus quartz sand, lightly sprinkle with clean, dry quartz sand \varnothing 0.1 - 0.4 mm (approx. 0.5 kg/m²).

Intermediate coat:

AB-PUR 366, pebble grey

Consumption: approx. 3 kg/m², then broadcast the surface in excess with clean, dry quartz sand \varnothing 0.4 - 0.8 mm (approx. 5 kg/m²).

Topcoat / sealer:

AB-POX 481, pebble grey

Consumption: approx. 0.7 - 0.9 kg/m².

System thickness: 3 - 4 mm consisting of a **membrane layer** of 0.8 - 1.0 mm and a **wearing layer** of 2 - 3 mm.

N/B:

AB-PUR 366 is not suitable for entrance or exit areas i.e. areas that have ramps. For these areas we recommend the use of a rigid system. On the bends and turns we recommend the application of an additional wearing coat using **AB-POX 481**.

Contact ABP with regard to parking area / deck systems.

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

N/B:

UV radiation cause discolouration.

4. Chemical resistance

| | |
|------------|-----------|
| Diesel | resistant |
| Engine oil | resistant |
| Petrol | resistant |
| Salt water | resistant |

see chemical resistance **AB-POX 481**

Tested for 3 months at 20°C; whether discolouration did occur was not considered.

5. Packaging

30 kg - sets

24 kg component A

6 kg component B

6. Health and safety

GISCODE: PU40

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 All / 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.

AB-PUR 366; 2.00/07.01.19 Before use, please check that this is the actual edition of the Technical Data Sheet. The information contained in this Technical Data Sheet is of a general nature and is provided in good faith and we accept no liability for errors or omissions. Because use and application of this product are out of our control and depend, concerning substrate, load and method of application, on the particularities of the individual case, our advice, verbal, written or based on tests, does not exempt the applicator from testing the suitability of the products for the intended use.

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