

# Technical Data Sheet



# AB-PUR® 350

2-C-PU-coating, universal

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

- Characteristics:**
- tough-elastic
  - base coat and topcoat on **mastic asphalt** and **ABP spray elastomerics**
  - self-levelling
  - up to 80 % natural / renewable raw materials
  - can be filled with quartz sand (30 up to 50 %)
  - high chemical resistance
  - very high mechanical resistance
  - crack-bridging (0.25 mm static)
  - inert and harmless once cured

**Application:** **AB-PUR 350** is a universal coating, suitable for use as a **base coat** on **hard industrial asphalt** and also as a **wear resistant coat on AB-POX** primed surfaces, or on other **spray elastomeric systems** such as **AB-PUR 550**, **AB-PUR 550 WP** or **AB-UCOAT 587**. Combined with the spray elastomeric systems, the product is also an integral part of the **ABP car park systems**. Depending on the type of application **AB-PUR 350** can be filled with quartz sand to extend the product, also the wet applied material may be broadcast / sprinkled with quartz sand, Durop®, basaltic grit, granite, Mandurax® and other hard aggregates. You may apply **AB-POX 481** or **AB-PUR 211** as a topcoat or a bituminous wearing coat / overlay (must be used in conjunction with a suitable adhesion primer).

**Consumption:** 1.3 - 3.0 kg/m<sup>2</sup> per coat, depending on use and application.

- Resistant to:**
- salt water / sewage
  - diluted alkalis
  - lubricating oil / fuels
  - mastic asphalt
  - see list of chemicals that it is resistant to
  - diluted acids
  - steel work platforms that vibrate
  - static cracks 0.25 mm (product free of fillers)

**Technical Data:**

Mixing ratio A : B	100 : 20 by weight (5 : 1)
Density (23°C)	approx. 1.45 g/cm <sup>3</sup>
Volume solids	approx. 100 %
Viscosity (23°C)	approx. 2600 mPa·s ± 350
Elongation at break (DIN 53504)	30 - 80 % depending on quartz sand - filler
Tensile strength (DIN EN ISO 527 at 23°C)	approx. 7.5 N/mm <sup>2</sup> (unfilled)

**Details for application:**

Pot life (10°C / 23°C / 30°C)	approx. 40 minutes / 25 minutes / 15 minutes
Substrate temperature	minimum 10°C up to maximum 30°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	at 10°C: 75 % (dew point +3°C) at > 23°C: 85 % (dew point +3°C)
Curing time / foot traffic (10°C / 23°C / 30°C)	24 hours / 16 hours / 8 hours
Curing time / mech. resistance (10°C / 23°C / 30°C)	48 hours / 24 hours / 16 hours
Curing time / chem. resistance (10°C / 23°C / 30°C)	5 days / 3 days / 2 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, concrete grey approx. RAL 7023  
- 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

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/mm<sup>2</sup>
- 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.

**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.

**Hard asphalt** must be prepared by shot blasting or abrasive grinding. Minimum 50 % of the filler aggregates must be exposed.

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. After mixing, fillers can be added whilst stirring constantly. Distribute the mixture immediately onto the surface. **AB-PUR 350** can be applied as a pure product or mixed with clean, dry, tempered quartz sand Ø 0.1 - 0.3 mm. The mixing ratio (w/w) will be determined by the type of use / application. To apply use a notched trowel (rubber or metal). Spread **AB-PUR 350** as an even coat ensuring uniform thickness. 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 350** can also be applied to substrates that are at minimum temperatures +8°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 m<sup>2</sup>.

**AB-PUR 350** is also suitable for use as an economical **coating system for parking areas**. Apply as 1 or 2 coats on a surface primed with **AB-POX 002**.

Consumption: approx. 2 - 3 kg/m<sup>2</sup>.

**Hard asphalt** surfaces can directly be coated with **AB-PUR 350** without the use of a special primer.

Consumption: 2 x approx. 1.5 kg/m<sup>2</sup>.

On industrial asphalt **AB-PUR 350** is used as a key coat (lightly sprinkled) **below** the **AB-PUR 550** spray elastomer, and then also as a wear coat above the **AB-PUR 550** spray elastomeric.

**Contact ABP - with regard to parking area / deck systems.**

We recommend protecting the wear coat with a subsequent topcoat of **AB-POX 481** or **AB-PUR 211**.

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

**N/B:**

UV radiation cause discolouration.

## 4. Chemical resistance

Ammonia 5 %	resistant
Citric acid < 10 %	resistant
Diesel	resistant
Disinfectants	resistant
Engine oil	resistant
Hydrochloric acid 10 %	resistant
Nitric acid 10 %	resistant
Petrol	short-term
Phosphoric acid 25 %	resistant
Salt water	resistant
Sewage	resistant
Sulphuric acid 40 %	resistant

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

## 5. Packaging

30 kg - sets

25 kg component A

5 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 350**; 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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