

# Technical Data Sheet



## AB-PUR<sup>®</sup> 701 N

1-C-PU-topcoat, coloured, silk matt

**Description:** 1-component polyurethane topcoat, coloured, moisture cured  
VOC < 500 g/l, low solvent content (< 15 %)

- Characteristics:**
- tough-elastic
  - UV - resistant
  - good coverage / high pigment content
  - high abrasion resistance
  - silk matt finish
  - inert and harmless once cured

**Application:** **AB-PUR 701 N** is a tough-elastic polyurethane topcoat that is coloured and has a low solvent content. This topcoat is suitable for the tough-elastic and tough-hard **AB-PUR-** or **AB-ZEROPUR** - and the tough-hard **AB-POX-** or **AB-ZEROPOX** - coating systems. The solvents used in the manufacture of **AB-PUR 701 N** produce a slight odour. Aliphatic polyurethanes are well known for their excellent chemical and abrasion resistance; also with them you can achieve a highly aesthetic **silk matt** finish on **ABP** - systems.

**N/B:** Rubber tyres and wheels or chemical softeners etc. will mark the surface. Please consult us.

**Consumption:** approx. 0.13 kg/m<sup>2</sup>.

- Resistant to:**
- water / sewage
  - diluted acids and alkalis
  - wet temperature max. 40°C
  - solvents (please consult us)
  - lubricants and fuels
  - dry temperature short-term 80°C

<b>Technical Data:</b>	Mixing ratio n/a	1-component
	Density (23°C)	approx. 1.40 - 1.60 g/cm <sup>3</sup> depending on colour
	Volume solids	approx. 80 %
	Viscosity (23°C)	approx. 500 mPa·s ± 200
	Abrasion (1000 g / 1000 rev.) acc. to Taber	25 mg

<b>Details for application:</b>	Pot life (12°C / 23°C / 30°C)	1-component
	Substrate temperature	minimum 12°C up to maximum 30°C
	Material temperature	15°C - 25°C
	Minimum - maximum relative humidity of air	at 12°C: 50 - 75 % (dew point +3°C) at > 23°C: 50 - 85 % (dew point +3°C)
	Duration between coats (should the duration between coats be too soon, curing of the subsequent coat will be affected)	12°C: min. 48 hours max. 72 hours 23°C: min. 24 hours max. 48 hours 30°C: min. 24 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:** 13.5 kg - pails (minimum production quantity: 27 kg per colour)

**Colour:** light grey approx. RAL 7035, window grey approx. RAL 7040 (other colours are available on request)  
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

**Storage:** 3 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C (store upside down).

### 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 product must be between 15 - 25°C. Mix the material using a suitable low speed electric mixer (300 - 400 rpm) for at least 3 minutes until a completely homogeneous mixture has been achieved. Distribute the material immediately onto the surface. To spread **AB-PUR 701 N** 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.

#### N/B:

If the topcoat is applied too thick it may cause creating bubbles due to CO<sub>2</sub> - development.

### 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 m<sup>2</sup>.

#### Topcoat:

**AB-PUR 701 N**, pebble grey

Consumption: approx. 0.13 kg/m<sup>2</sup>.

**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
Hydrochloric acid 10 %	resistant
Hydrochloric acid 30 %	short-term
Lactic acid 10 %	resistant
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

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

13.5 kg - drum

### 6. Health and safety

**GISCODE: PU50**

**AB-PUR 701 N** contains solvents. Should there be insufficient ventilation, wear respiratory equipment. Avoid inhaling 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 Material 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 / i / 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 701 N**; 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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