

Technical Data Sheet



AB-PUR® 051

2-C-PU-bonding agent

Description:

2-component polyurethane trowel applied bonding agent, thixotrope, coloured
VOC < 500 g/l

Characteristics:

- thixotropic
- very high bonding strength
- tough-hard
- high chemical resistance
- inert and harmless once cured

Application:

AB-PUR 051 is a product for universal use; it is a tough-hard bonding agent that is used as an adhesive to adhere different materials together e.g. granule slab to concrete, steel to concrete, timber to concrete, timber to timber, etc. Due to the thixotropic nature of **AB-PUR 051**, it is easy to spread over a surface. Also **AB-PUR 051** is easy to grind. Prior to full application we recommend to apply a test area. **AB-PUR 051** is not suitable for green and damp concrete / cement screed. Please consult us.

Consumption:

approx. 1.6 kg/m² per 1 mm.

Resistant to:

- water
- mineral oil
- diluted acids
- diluted alkalis

Technical Data:

Mixing ratio A : B	100 : 20 by weight (5 : 1)
Density (23°C)	approx. 1.55 g/cm ³
Volume solids	approx. 100 %
Viscosity (23°C)	thixotropic

Details for application:

Pot life (10°C / 23°C / 30°C)	approx. 30 minutes / 20 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)
Duration between applications (if sprinkled with quartz sand, the duration will increase)	10°C: min. 24 hours max. 48 hours 23°C: min. 12 hours max. 24 hours 30°C: min. 5 hours max. 24 hours
Curing time / foot traffic (10°C / 23°C / 30°C)	24 hours / 12 hours / 5 hours
Curing time / mech. resistance (10°C / 23°C / 30°C)	48 hours / 24 hours / 24 hours
Curing time / chem. resistance (10°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:

30 kg - pails

Colour:

natural (other colours on request)

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 substrates that are to be bonded together must be inspected and tested to assess the condition / quality. The surface must be clean, dry and free of contaminants. If necessary, prior to the application the substrate must be prepared by mechanical means using qualified equipment e. g. Blastrac® shot blasting, grit blasting or grinding.

We recommend applying a test area.

Minimum requirements:

- free of cement laitance, dust, oil, fat and other contaminants
- stable
- pull off strength min. 1.5 N/mm²

Mineral, absorbent surfaces must be prepared by applying a suitable primer.

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

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. Use a notched trowel or scraper to apply **AB-PUR 051** evenly at a 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.

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.

AB-PUR 051 can be used in various ways. We recommend to apply a test area.

N/B:

UV radiation cause discolouration.

4. Packaging

30 kg - sets

25 kg component A

5 kg component B

5. 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.

6. 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 051; 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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