

Technical Data Sheet



AB-ZEROPUR® 874

2-C-PU-topcoat, water-based, silk matt



Description: 2-component polyurethane topcoat, colourless, silk matt
very low emission

- Characteristics:**
- UV - resistant
 - absorbs UV
 - high abrasion resistance
 - fast curing
 - high chemical resistance
 - does not readily attract dirt
 - easy to clean
 - anti-slip designable / approx. R11
 - inert and harmless once cured

Application: **AB-ZEROPUR 874** is a water-based, colourless topcoat for use on both the tough-hard **AB-PUR-** or **AB-ZEROPUR-** and the tough-hard **AB-POX-** or **AB-ZEROPOX** - coating systems. It is easy to apply, fast curing and has an aesthetic silk matt finish that is resistant to contamination. The coated areas are easy to clean. **AB-ZEROPUR 874** has a very high resistance to abrasion and also contains highly active UV - filters that provide extended durability. When using **AB-ZEROPUR 874** in confined areas ensure that there is adequate ventilation. The containing water must be provided every opportunity to evaporate / dissipate. Insufficient ventilation may have an affect on curing. 2 coats should be applied where foot fall / traffic is most heavy.

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

Consumption: approx. 120 - 150 g/m², (1 to 2 coats, depending on use).

- Resistant to:**
- diluted acids and alkalis
 - disinfectants*
 - detergents*
 - lubricants and fuels
- *(resistant to disinfectants in acc. with the DGHM list; please consult us)

Technical Data:

Mixing ratio A : B	100 : 18.5 (by weight (5.4 : 1))
Density (23°C)	approx. 1.05 g/cm ³
Volume solids	approx. 40 %
Viscosity (23°C)	approx. 700 mPa·s ± 200 (incl. 5 % water)

Details for application:

Pot life (12°C / 23°C / 30°C)	approx. 50 minutes / 40 minutes / 30 minutes
Substrate temperature	minimum 12°C up to maximum 20°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	at 12°C: 75 % (dew point +3°C) at > 23°C: 75 % (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. 8 hours max. 72 hours 23°C: min. 4 hours max. 48 hours 25°C: min. 3 hours max. 36 hours
Curing time / foot traffic (12°C / 23°C / 25°C)	36 hours / 24 hours / 16 hours
Curing time / mech. resistance (12°C / 23°C / 25°C)	96 hours / 48 hours / 48 hours
Curing time / chem. resistance (12°C / 23°C / 25°C)	7 days / 5 days / 4 days
All above values are approximate and may be used as a guideline for specifications	

Packaging: 4.15 kg - pails

Colour: clear

Storage: 3 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C. Protect from frost! 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. **Whilst stirring constantly pour component B into A.** 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, the material must rest for 10 minutes (reaction time). **After the reaction time, 5 % of potable water must be added whilst stirring constantly to achieve the required viscosity for the application!** Distribute the mixture immediately onto the surface. To spread **AB-ZEROPUR 874** as an even coat use a rubber squeegee. To attain an acceptable finish use a suitable paint-roller (nylon, 14 - 18 mm). Avoid overlapping where possible. Avoid ponding on the surface and a too thick coat. Always ensure when applying **AB-ZEROPUR 874** that there is adequate ventilation. Due to the aqueous nature of the product, insufficient ventilation will prevent the evaporation of water, and therefore have an effect on the curing. 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:

During the application and when curing, protect the surface from direct draught, simultaneously however, facilitate adequate ventilation to remove humidity.

If both the ambient and surface temperatures are too high, and the relative humidity is < 50 % the coating will dry too fast, as a result roller marks or seams will occur. To prevent this from taking place we advise the use of taped lines.

If there is an under-floor heating, the temperature must be reduced in time, prior to the application, so that the substrate has a maximum temperature of 20°C. Otherwise the coating will dry too fast and lead to a finish that has shadows and visible rolling approaches.

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-ZEROPUR 874, clear

Consumption: approx. 120 - 150 g/m².

It is not suitable for surfaces that have had too many sand / coloured flakes broadcast on them.

Anti-slip approx. R11:

If a slight anti-slip finish is required, we recommend to add **2 % of AB-T 125** to component A prior to mixing. After mixing apply the material by using a suitable paint-roller (nylon. 14 - 18 mm) and a paint grid. We generally suggest to scrape the roller over a paint grid after dipping the roller into the product to avoid ponding and any unevenness in layer thickness. During the application the product must be stirred regularly to achieve a homogeneous distribution of the slide blocking particles in the material.

Consumption: approx. 150 g/m².

Not suitable for surfaces that have had too many sand / coloured flakes broadcast on them.

To ensure the embedding of the anti-slip particles, we recommend to apply an additional topcoat with **AB-ZEROPUR 874**.

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.

Please note our current cleaning and maintenance instructions. Especially the characteristics stated under point 5!

4. Packaging

4.15 kg - sets

3.5 kg component A

0.65 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 WB) is 140 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.

AB-ZEROPUR 874; 2.01/17.03.20. 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.

AB-Polymerchemie GmbH

Tjüchkampstraße 21 - 24

D - 26605 Aurich

Tel.: +49 (0)4941 - 604360

Fax.: +49 (0)4941 - 6043643

info@ab-polymerchemie.de

www.ab-polymerchemie.de