

Technical Data Sheet



AB-ZEROPUR® 856

2-C-PU-waterproofing, manual application



Description:

2-component polyurethane coating, coloured
VOC < 1 %

Characteristics:

- applied manually
- high elastic
- flexible at low temperatures
- dynamic crack-bridging
- universal use
- inert and harmless once cured

Application:

AB-ZEROPUR 856 is a self-levelling, manually applied, universal waterproofing system, which is used for the protection of most concrete structures. When used in conjunction with the **AB-ZEROPOX**-primers, and also the system specific **AB-ZEROPUR** - coatings and topcoats, the creation of high quality waterproofing systems is guaranteed. Please ask for detailed information. **AB-ZEROPUR 856** is the perfect choice for the protection of flat roofs, terraces, air-conditioning rooms / units, coating for concrete / cement screeds, parking garages and other areas which require a seamless waterproofing system. The dynamic crack-bridging ability is 0.3 mm at -20°C, static cracks up to 1 mm.

Consumption:

1.30 kg/m² per 1 mm, minimum 2 mm is recommended.

Resistant to:

- diluted acids and alkalis
- flexible at low temperatures, down to -40°C
- mineral oil
- water / salt water

Technical Data:

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|-------------------------------------|--------------------------------|
| Mixing ratio A : B | 100 : 120 by weight |
| Density (23°C) | approx. 1.30 g/cm ³ |
| Solids | > 99 % |
| Viscosity (23°C) | approx. 4000 mPa·s ± 1000 |
| Shore A - hardness (DIN EN ISO 868) | approx. 75 - 80 |
| Tensile strength (DIN 53504) | approx. 6 N/mm ² |
| Elongation at break (DIN 53504) | approx. 400 % |

Details for application:

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| Pot life (10°C / 23°C / 30°C) | approx. 40 minutes / 30 minutes / 20 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) | 14 hours / 10 hours / 8 hours |
| Curing time / mech. resistance (10°C / 23°C / 30°C) | 72 hours / 48 hours / 24 hours |
| Curing time / chem. resistance (10°C / 23°C / 30°C) | 3 days / 2 days / 1 day |
| All above values are approximate and may be used as a guideline for specifications | |

Packaging:

15 kg - pails

Colour:

grey (other colours are available on request)
- 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 with **AB-ZEROPOX 803**, followed by a light sprinkle of clean, dry quartz sand Ø 0.1 - 0.5 mm.

On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, AB-ZEROPOX 810 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. **Stir the components thoroughly** and mix 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 material into a clean container and mix again for at least 1 minute more. At this stage if required, 2 % of a thixotropic agent may be added whilst stirring constantly. Distribute the mixture immediately onto the surface. To apply use a notched trowel (rubber or metal). Spread **AB-ZEROPUR 856** as an even coat ensuring uniform thickness. **After approx. 5 minutes the applied coating should receive a spiked roller in order to achieve an excellent finish, and also to assist in removing any entrapped air.** To achieve an integral water-proofing system, we advise the use of 2 coats of **AB-ZEROPUR 856**. To ensure a uniform thickness we advise to embed e.g. a polyester fleece into the coat. 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 filler ratio and the consumption per m².

Primer:

AB-ZEROPOX 803, clear

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

Key coat:

AB-ZEROPOX 803 + quartz sand

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

Waterproofing:

AB-ZEROPUR 856, grey

Consumption: approx. 1.30 kg/m²/mm.

Minimum layer thickness: 2 mm.

It may be applied in 1 or 2 coats. Should the requirement be for 2 coats and the duration between the first and the second coat exceeds 8 hours, the adhesion primer **AB-PUR 095** must be applied to achieve a tear resistant connection.

Depending on the system configuration, a system specific coating or a suitable UV topcoat must be applied. Please ask for system advice!

N/B:

AB-ZEROPUR 856 is not suitable as a sealing system for directly drive on parking deck systems in outdoor areas.

4. Packaging

15 kg - sets

6.82 kg component A

8,18 kg component B

5. Health and safety

GISCODE: PU60

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-ZEROPUR 856; 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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