

Technical Data Sheet



AB-ZEROPUR® 835 TSD

2-C-PU-impact sound insulation



Description:

2-component polyurethane coating, coloured
VOC < 1 %, practically emission-free, acc. to AgBB - scheme

Characteristics:

- tough-elastic
- self-levelling
- up to 80 % natural / renewable raw materials
- high mechanical resistance
- impact sound / vibration (~ 10 decibel)
- inert and harmless once cured

Application:

AB-ZEROPUR 835 TSD is a self-levelling, impact sound insulation, which increases the walking comfort and reduces the ambience and subsonic noise. **AB-ZEROPUR 835 TSD** is mainly used as intermediate layer for sports and comfort flooring systems with high requirements to noise reduction. In combination with **AB-PUR 315**, **AB-PUR 316**, **AB-ZEROPUR 834**, **AB-ZEROPUR 835** and **AB-ZEROPUR 836** it is possible to create durable, sound reducing, seamless and hygienic flooring systems which are suitable for public buildings e.g. schools, gyms, hospitals and kindergartens. Please ask for detailed information.

N/B: Flooring systems with **AB-ZEROPUR 835 TSD** may show deformation and imprints on increased load. Relief of the strain reduces the imprints, but they may stay visible.

Consumption:

4.0 - 5.0 kg/m².

Resistant to:

- water
- wet temperature max. 40°C
- detergents (test required)
- suitable for washing rooms

Technical Data:

Mixing ratio A : B	100 : 22 by weight (4.5 : 1)
Density (23°C)	approx. 1.10 g/cm ³
Volume solids	approx. 100 %
Viscosity (23°C)	approx. 3000 mPa·s ± 500
Shore A - hardness ((DIN EN ISO 868)	approx. 60

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)
Curing time / foot traffic (10°C / 23°C / 30°C)	48 hours / 24 hours / 20 hours
Curing time / mech. resistance (10°C / 23°C / 30°C)	96 hours / 72 hours / 48 hours
Curing time / chem. resistance (10°C / 23°C / 30°C)	8 days / 6 days / 5 days
All above values are approximate and may be used as a guideline for specifications	

Packaging:

25 kg - pails

Colour:

natural
- 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 using **AB-ZEROPOX 803**, 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-ZEROPOX 810 must be used. Please consult us!

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. 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. To apply use a rake (pin scraper). Spread **AB-ZEROPUR 835 TSD** 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.

Attention:

When applying the subsequent coating wear suitable shoes with an increased contact surface (no spike shoes), to ensure that **AB-ZEROPUR 835 TSD** is not damaged, e.g. studs.

AB-ZEROPUR 835 TSD can also be applied to substrates that are at minimum temperatures +5°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 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 0.4 - 0.8 mm (approx. 0.5 kg/m²).

Impact sound insulation:

AB-ZEROPUR 835 TSD, natural

Consumption: approx. 4 - 5 kg/m².

Elastic coating:

AB-ZEROPUR 834, pebble grey

Consumption: approx. 3.0 - 4.5 kg/m².

Topcoat / sealer (contains solvents):

AB-PUR 745, pebble grey - matt

Consumption: approx. 0.1 - 0.13 kg/m² or

Topcoat / sealer (water-based):

AB-ZEROPUR 873 Flex P, pebble grey

- silk matt -

Consumption: approx. 0.12 - 0.15 kg/m² (1 - 2 x depending on use).

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

4. Packaging

25 kg - sets

20.50 kg component A

4.50 kg component B

5. Health and safety

GISCODE: PU40

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 835 TSD; 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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