

TEROSON WT 112 DB

August 21

Coating for secondary noise and vibration control on thin-walled sheet metal structures**PROPERTIES**

- High acoustic efficiency: anti-drumming effect and absorption of structure-borne sound
- Non-combustible (A2-s1 d0 in compliance with DIN EN 13501-1)
- Heat-insulating
- Sprayable and trowelable
- Environmentally friendly: based on an aqueous synthetic resin dispersion (free of halogens, heavy metals and asbestos)
- Quick and crack-free drying

POSSIBLE USES

Sound deadening and absorption of structure-borne sound caused by thin-walled sheet metal structures used for steel and aluminum facade elements, in plant and apparatus engineering, for trapezoidal sheet metal ceilings and in ventilation ducts.

SUBSTRATE PREPARATION

The surfaces to be coated must be clean, dry and free of dust, oil, grease or other anti-adhesive substances. Application of a special adhesion-promoting primer is not necessary. However, non-galvanized sheet steel and non-anodized aluminum must be pretreated with a suitable waterproofing anti-corrosive coating.

APPLICATION

TEROSON WT 112 DB is supplied in a workable consistency that has been formulated for application by air-atomized spraying (secondary air injection). If necessary, stir the compound before use, normally after a storage period of more than 3 months. The following spray parameters are recommended:

Discharge by piston pump (compression):	12:1
Material pressure (bar):	2 to 4
Atomizing pressure (bar):	4 to 6
Nozzle diameter (mm):	6

Application by other spray techniques, e.g. airless spraying, is also possible. The user should, however, carry out preliminary tests with the spray device intended for use. Spray application is also possible overhead and on vertical surfaces up to a wet layer thickness of 5 mm in one application.

TEROSON WT 112 DB can be applied within a temperature range of +10 to +40 °C; the most favorable working temperature is between +15 and +25 °C. The compound can be diluted with water (max. 5 %), but this should only be done in exceptional cases. Possible disadvantages: reduced slip resistance on vertical surfaces, delayed drying, risk of crack formation.



For these reasons, the product should only be diluted when doing repair work or when coating smaller areas.

TEROSON WT 112 DB can also be applied manually, e.g. with a trowel. However, we recommend this application method only for small areas and for touch-up work. The compound dries crack-free even when applied over large, level areas. Hairline cracks may occasionally occur if the product accumulates in beads or at upstands (raised edges) and in unfavorable drying conditions, e.g. when there is no convection.

PLEASE NOTE

Coatings produced with Teroson WT 112 DB must not be exposed to standing water or direct weathering. Short-term exposure to splashes of water (any swelling is reversible), fuel, oil and grease has a negative effect on the resistance of the coat.

TEROSON WT 112 DB can also be used as an anti-condensation coating. In this case, the dry film thickness must correspond to the maximum moisture load per load period. In the following dry period, the coating regenerates by releasing the moisture into the ambient air. This process is accelerated by providing sufficient ventilation.

However, permanent exposure to high humidity and temperatures below dew point may cause condensation water to drip off. As a result, the Teroson WT 112 DB coating may come off the surface.

Depending on the extraction area of the natural raw materials, color variations between different production batches may occur.

STORAGE

TEROSON WT 112 DB is susceptible to frost damage. We therefore recommend storage temperatures between +10 °C and +20 °C.

Shelf life: 9 months

DISPOSAL

Only return the completely emptied packaging for recycling. Non-hardened product residues must be disposed of according to the applicable local regulations. Hardened product residues must be disposed of as household-type industrial waste or construction site waste.

European Waste Code (EWC): 080410

TECHNICAL DATA

TEROSON WT 112 DB

Material base:	Aqueous synthetic resin dispersion
Consistency:	Paste-like, trowelable and sprayable
Color:	Beige
Odor:	Faint smell of alcohol
Density (wet // dry):	≈ 1.4 g/cm ³ // ≈ 1.2 g/cm ³
pH value:	≈ 9
Solids content:	≈ 66.5 %
Thinner / cleaner:	Water
Drying time (4 mm, wet film):	
- Standard climate (DIN 50014)	≈ 24
- At 40 °C circulated air:	≈ 8 h
- At 80 °C circulated air:	≈ 3 h
Volume shrinkage:	≈ 18 %
Consumption (for a dry film of 1 mm thickness):	≈ 1.2 kg/m ²
Absorption capacity for condensed water (dry film of 1 mm thickness):	≥ 80 g/m ²
Application temperature:	+10 °C to +40 °C
Service temperature: (short-term exposure, max 1 h)	-50 °C to +120 °C (+160 °C)
Thermal conductivity: (acc. to DIN 52612)	0.21 W / (m ² • K)
Fire resistance: (acc. to DIN EN 13501-1)	Class A2-s1, d0 / non-combustible
Packaging:	40 kg hobbock / 250 kg drum
Acoustic data:	
Loss factor: (acc. to DIN EN ISO 6721)	≥ 0.22 / 1mm steel sheet ≥ 0.33 on aluminum
Temperature / frequency:	+20 °C / 200 Hz
Material:	1 mm steel sheet & aluminum
Thickness ratio coating/steel sheet:	2:1

Apart from the information given in this Technical Data Sheet it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable national standards. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative humidity unless specified otherwise. Please note that in other climatic conditions hardening may be accelerated or delayed and take the resulting consequences into account.

The above information, in particular proposals for the handling, application and use of our products, is based on our knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our influence, we strongly recommend that in each case the user conducts sufficient tests to ensure our products are suitable for the intended application method and use. Legal liability cannot be accepted, either based on the content of this data sheet or any verbal advice given, unless there is evidence of carelessness or gross negligence on the manufacturer's part. This Technical Data Sheet supersedes all previous issues.

Please refer to our Safety Data Sheet for hazard warnings, safety advice and information on transport labelling.