TEROSON

Technical Data Sheet

TEROSON WT 118

August 21

Anti-drumming compound for use on thin-walled materials

PROPERTIES

- High acoustic efficiency: anti-drumming effect and absorption of structure-borne sound
- Hardly inflammable, class B1 (in compliance with DIN 4102-1)
- 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 in plant and apparatus engineering, trapezoidal sheet metal ceilings, ventilation ducts and in steel and aluminum facade elements.

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 118 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. The following spray parameters are recommended:

Discharge by piston pump (compression):	12:1
Material pressure (bar):	3 to 4
Atomizing pressure (bar):	4 to 6
Nozzle diameter (mm):	6 or larger

Application by other spray techniques, e.g. airless spraying from a gear ratio of 50:1 upwards, 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 118 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 118 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 on 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 118 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.

When continuously exposed to high air humidity and when falling below the dew point, condensation water may drip and cause the TEROSON WT 118 coating to come off the surface.

While still fresh/uncured, excess material and stains of TEROSON WT 118 can be removed with water, also on the application tools. If necessary, add a wetting agent. Dried-on material can only be removed mechanically.

STORAGE

TEROSON WT 118 is susceptible to frost damage. We therefore recommend storage temperatures between +10 °C and +20 °C.

Shelf life: 9 months

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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 118

Material base:	Aqueous synthetic resin dispersion
Consistency:	Paste-like, trowelable and sprayable
Color:	Grey
Odor:	Neutral, generic odor
Density (wet // dry):	≈ 1.55 g/cm³ // ≈ 1.4 g/cm³
pH value:	≈ 8
Solids content:	≈ 80 %
Thinner / cleaner:	Water
Drying time (4 mm, wet film):	
- Standard climate (DIN 50014)	≈ 36 h
- At 40 °C circulated air:	≈ 12 h
- At 80 °C circulated air:	≈ 6 h
Volume shrinkage:	≈ 20 %
Consumption (for a dry film of 1 mm thickness):	≈ 1.4 kg/m²
Absorption capacity for condensed water (dry film of 1 mm thickness):	≥ 90 g/m²
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)	0.2 W/ (m² • K)
Fire resistance: (acc. to DIN 4102-1)	Class B1 / hardly inflammable
Packaging:	40 kg hobbock / 250 kg drum

Acoustic data:

Loss factor: (acc. to DIN EN ISO 6721-3)	0.22 / 1 mm steel sheet
Temperature / frequency:	+20 °C / 200 Hz
Material:	1 mm steel sheet
Thickness ratio coating/steel sheet:	3:1

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