

## TEROSON WT 129

January 2021

### PRODUCT DESCRIPTION

TEROSON WT 129 provides the following product characteristics:

<b>Technology</b>	Aqueous Dispersion	Synthetic Resin
<b>Product Type</b>	Coating	
<b>Application</b>	Coating for spray and spatula application	
<b>Condition</b>	Water Resistant, Low Flammability and Sound-Deadening	
<b>Appearance</b>	Beige	

TEROSON WT 129 is a secondary noise and vibration control coating for spray and spatula application, based on an aqueous synthetic resin dispersion with flame retardant additives. The product is rendered environmentally friendly by the use of low toxicity raw materials (halogen, heavy metal and asbestos free).

TEROSON WT 129 fulfils fire protection requirements in rail with classification HL 3 according to DIN EN 45545-2 (2013-08) and marine with MED 3/18.a – Module B +D certificate based on IMO resolution MSC.307(88) FTPC2010, annex 1, part 5.

TEROSON WT 129 demonstrates reliable adhesion to stainless steel, galvanized steel sheets and anodized aluminium. Non-galvanized sheet steel and raw aluminium surfaces will firstly require application with effective corrosion protection (primer coated or painted). The sag resistance on vertical surfaces, when spray applied, is given at 6 mm layer thickness, based on one application layer.

During the drying process, no cracks occur in large, flat coated surfaces. If material is allowed to pile up in grooves or at corner, and if unfavourable drying conditions ensue, e.g. absence of convection, this may give rise to occasional hairline fractures.

Coating with TEROSON WT 129 can be subjected to standing water for a longer period of time. The light swelling process is reversible. The coating will not be peeled off from the surface.

Due to natural raw materials (depending on winning areas) variances in colour among various batches may occur.

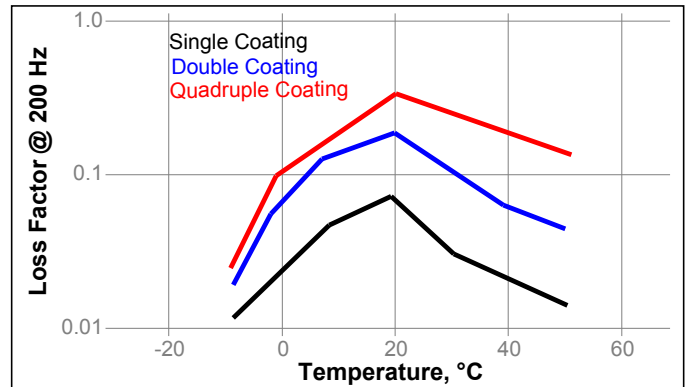
### Application Areas:

TEROSON WT 129 is used for (sound deadening or absorption of structure-borne noise) secondary noise and vibration control on thin walled sheet metal constructions in the manufacture of vehicle, railway carriages, shipbuilding as well as plant and equipment building. Railway vehicles can be completely sprayed with TEROSON WT 129, assuming that

appropriate water drainage holes be provided in the floor, in order to allow the coating to become dry now and then.

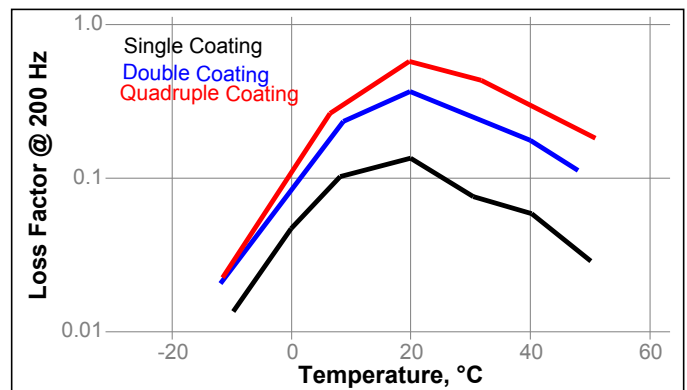
### Loss Factor

Loss factor according to DIN EN ISO 6721-3 on steel sheet as a function of temperature.



### Loss Factor - Graph 2

Loss factor according to DIN EN ISO 6721-3 on aluminium sheet as a function of temperature.



**TECHNICAL DATA****TEROSON WT 129**

Colour:	beige
Odour:	characteristic
Consistency:	pasty
Density:	
wet, g/cm <sup>3</sup> :	~1.34
dry, g/cm <sup>3</sup> :	~1.2
Solids, %:	~70
pH-value:	~9.0
Diluent / Cleaner:	water
Drying time (4 mm wet film)	
at standard climate DIN EN ISO 291, hrs:	~22
at 40°C convection, hrs:	~15
at 80°C convection, hrs:	~12
Volume shrinkage on drying, %:	~10
Water absorption, %:	~15
Storage:	4 weeks condensation water-standard climate DIN 50017 - KK (40°C, 100% RH)
Application temperature, °C:	10 to 40
In service temperature range, °C:	-50 to 120
Short exposure (up to 1 hrs.), °C:	160

**Acoustic Data**

Loss factor DIN EN ISO 6721-3:	≥ 0.19
Temperature, °C:	20
Frequency, Hz:	200 Hz
Material:	steel sheet 1 mm
Thickness ratio coating / steel sheet: (diagram see appendix)	2 : 1

**DIRECTIONS FOR USE****Preliminary Statement:**

Prior to application it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed.

**Pre-Treatment:**

The surfaces to be coated must be dry, free of oil, dust, grease and other contaminants. An adhesion promoter is not

necessary. Non-galvanized steel sheet and non-anodized aluminium, however, require coating with a suitable water retardant corrosion protection.

If necessary, TEROSON WT 129 must be stirred before use when it has been stored between delivery and use for longer period (approx. 3 months).

**Application:**

TEROSON WT 129 is supplied in ready to use condition for application by secondary air spraying using piston pumps. Following values are recommended for spraying:

Conveyance, with a piston pump, ratio	12 : 1
Material pressure, bar	2 to 4
Atomizing air pressure, bar	4 to 6
Nozzle, mm Ø	6

Applications with other spray technologies, e.g. airless pumps is, in principle, also possible. Trials are however, recommended.

The material can be spray applied - even overhead and on vertical surfaces - up to a wet film layer thickness of 4 mm in one step. Application temperature range possible is 10°C to 40°C; optimum temperature is 15°C to 25°C.

Dilution with water (max. 5%) is possible, but should only be conducted in exceptional cases. Possible disadvantages: reduced sag resistance on vertical surfaces, delayed drying, crack formation. Therefore dilution is only recommended for small surfaces and repair work.

**Fire protection according to DIN EN 45545-2****Spread of Flame:**

The product fulfils the fire protection requirements R1, R2 and R7 for the Hazard Level HL3.

Test Method: ISO 5658-2

**Smoke toxicity & density:**

The product fulfils the fire protection requirements R1, R2 and R7 for the Hazard Level HL3.

Test Method: ISO 5659-2

**Heat release rate:**

The product fulfils the fire protection requirements R1, R2 and R7 for the Hazard Level HL3.

Test Method: ISO 5660-1

**Cleaning:**

Provided that TEROSON WT 129 is not yet dry, application equipment can be cleaned after use with water, with the addition, where necessary, of detergent. Dried material can be removed using Teroson D or mechanically.



**Classification:**

Please refer to the corresponding **Safety Data Sheets** for details on:

**Hazards identification**

**Transport information**

**Regulatory information**

**Storage:**

Frost-Sensitive	Yes
Recommended storage temperature, °C	15 to 25
Shelf-life	9 months

**ADDITIONAL INFORMATION****Disclaimer**

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