

PU-D20 Steel System *Visco Elastic Deck Covering System (Horizontal)*

Product description

PU-D20 Visco Elastic Damping Layer is a two component polyurethane compound, designed for use in constrained layer application.

PU-D20 Visco Elastic Damping Layer is a specially formulated polyurethane polymer designed to produce, together with the steel construction and the steel tiles constraining layer, a final structure with very high loss factor over a wide temperature and frequency range. This dramatically reduces noise levels generated by vibration of the structure.

Minimum 1 mm PU-D20 Visco Elastic Damping Layer forms the filling of a sandwich construction between the steel of the deck and minimum 1,5 mm constraining el. galvanized steel tiles. As the deck flexes under vibration transmitted to it from engines or propellers, the visco elastic layer is placed in shear. The special property of a visco elastic material is that it does not recover at the same rate as which it is distorted, and energy from the vibration is therefore absorbed, leaving less to be radiated as noise.

The bond between the visco elastic layer and the deck, and the bond between the visco elastic layer and the constraining layer is therefore of outmost importance.

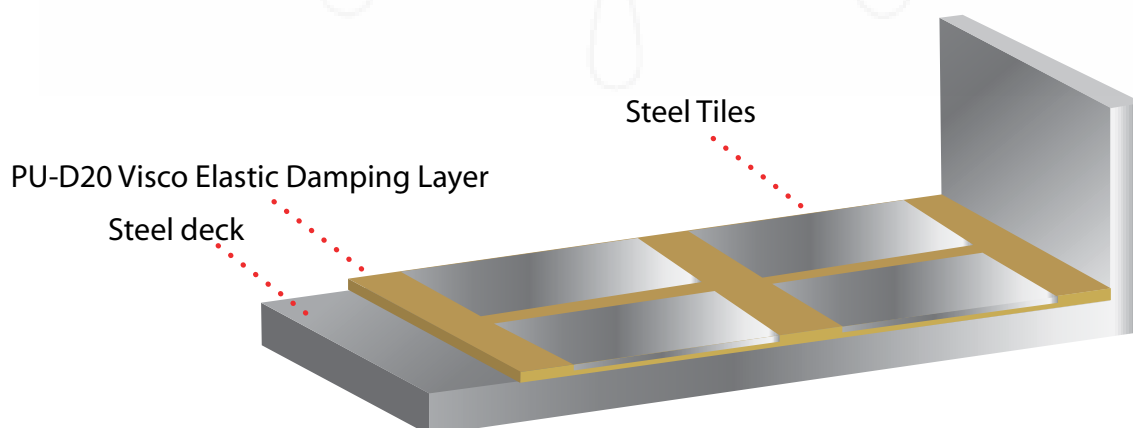
Surface preparation

Before application of the PU-D20 ensure that the deck is clean and free from dust, grit, rust, grease or any other dirt. The deck surface must be ground free from weld spots and other lumps and a normal shop primer must be applied.

Aluminum has to be primed with a wash primer.

Application

Before use, the PU-D20 component A and B must be thoroughly mixed together by using an electric mixer. Component B shall be poured into the component A can and then mixed. Measure up the deck area to be treated in smaller sections of approx. 15-20 m². Trowel out the damping layer PU-D20 in the specified thickness and lay down the constraining steel tiles in the wet layer.



PU-D20 Steel System *Visco Elastic Deck Covering System (Horizontal)*

Technical description - PU-D20 Visco Elastic Damping Layer

Density	Approx. 1,35 kg/mm/m ²
Solid content	100%
Solvent	Solvent free
Colour	Brownish
Operating temperature	-20°C to approx. + 80°C
Application temperature	Minimum + 5°C
Pot life	Approx. 30 minutes at 20°C
Curing time	Approx. 8 hours. Maximum acoustical performance after 5 days
Flammability	Not flammable

Packaging

- 7,7 kg set or 18,4 kg set - PU-D20 Visco Elastic Damping Layer
- 300x300x1,5/2 mm pieces - Steel Tiles (Various sizes and thicknesses)

Shelf-life

PU-D20 Visco Elastic Damping Layer:	Minimum 12 months in unopened packaging
Steel Tiles:	No limit

Storage

In dry conditions, do not expose to moisture and freezing temperature.

The information and in particular, the recommendations relating to the application and end use of DMS products, are given in good faith based on our current knowledge and experience. The information and recommendations are given without warranty of any kind and does not lead to any further liability for DMS, besides what is stated in the sales agreement. It is the buyer or end-user's responsibility to investigate or in other way make sure that DMS product suitable for the intended use and further are stored, handled and applied in accordance with stated directions. All orders are delivered and accepted in accordance with our general conditions of sale

For additional technical information, please contact our technical department.