

## **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. (At least 75-80% of the area must be covered with 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.

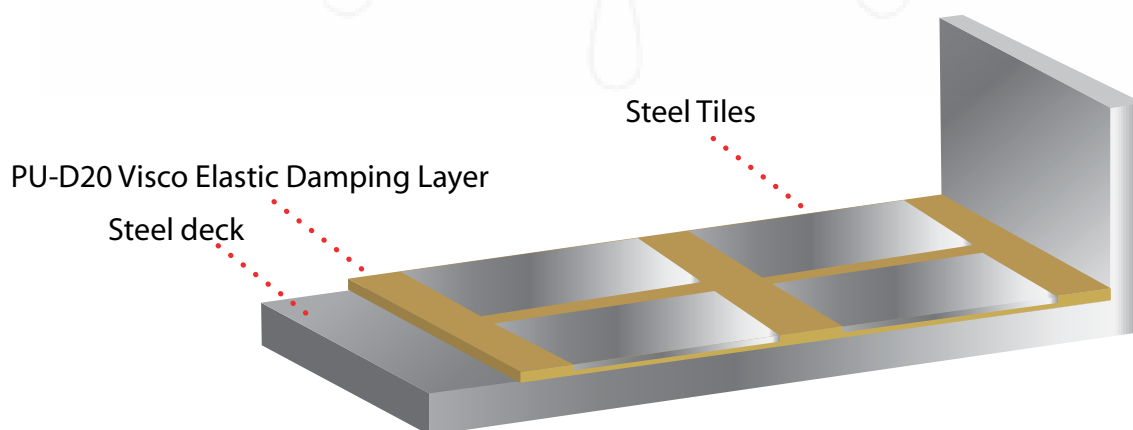
### **Surface preparation**

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 m<sup>2</sup>. Trowel out the damping layer PU-D20 in the specified thickness and lay down the constraining steel tiles in the wet layer.



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### **Technical description - PU-D20 Visco Elastic Damping Layer**

<b>Density</b>	Approx. 1,35 kg/mm/m <sup>2</sup>
<b>Solid content</b>	100%
<b>Solvent</b>	Solvent free
<b>Colour</b>	Brownish
<b>Operating temperature</b>	-20°C to approx. + 80°C
<b>Application temperature</b>	Minimum + 5°C
<b>Pot life</b>	Approx. 30 minutes at 20°C
<b>Curing time</b>	Approx. 8 hours. Maximum acoustical performance after 5 days
<b>Flammability</b>	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.

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