Weber Marine VEM PU-10

- Total Solid according to GISCODE (test method "Deutsche Bauchemie")
- Viscoelastic
- Insulating sound and vibration
- Good adhesion on prepared steel
- Paste-like stable

About this product

weber marine VEM PU-10 is a 2-component, viscoelastic and trowelable polyurethane wall coating for producing Marine wall coatings in sandwich construction with steel (category Bulkhead, wall and ceiling linings) to reduce sound levels and vibrations.

Ships or offshore facilities place special requirements on the fire behaviour of surface coatings. weber marine VEM PU-10 has been tested as sandwich product in combination with steel plates in terms of low flammability according to the International Maritime Organization (IMO) Fire Test Procedures (FTP) CODE.

The stable coating material is trowelled onto the steel wall with a suitable tool. The second steel plate can be pressed onto the uncured coating. weber marine VEM PU-10 then hardens without shrinkage and bonds the two steel elements to each other.

Area of use

- As sandwich coating on ships and offshore facilities or other maritime applications.
- As sound-insulating wall coating in ombination with steel top plates.

Substrate

The substrate to be coated must be even, dry, free of dust, sufficiently resistant to tension and compression as well as be free from weakly-bonded components or surfaces. Materials impairing adhesion such as grease, oil and paint residues should be removed with suitable measures.

Prepare steel appropriately, e.g. by grinding or blasting. In the case of corrosion-protected substrates, check the adhesion to the anti-corrosion coating.

To know before applying

To remove fresh contamination and to clean tools, use thinners VR 28 or VR 33 immediately. Hardened material can only be removed mechanically.

Product specification	
Material consumption	2,7 - 4,3 kg/m²
Recommended layer thickness	Approx. 2 - 3 mm
Mixing ratio A:B	Parts by weight: 100 :15. Parts by volume: 100 : 18
Application temperature	Minimum 10 °C / 50 °F (floor and air temperature)
Pot life (Operating time)	30 - 40 min. at 10 °C / 50 °F. 25 - 30 min. at 20 °C / 68 °F. 15 - 20 min. at 30 °C / 86 °F.
Waiting time between operations	After curing, but not longer than 48 hours at 20 °C / 68 °F
Curing time	24 - 36 hrs. at 10 °C / 50 °F. 14 - 18 hrs. at 20 °C / 68 °F. 10 - 14 hrs. at 30 °C / 86 °F
Curing time for light traffic load	48 - 72 hrs. for mechanical load at 20 °C / 68 °F
Curing time for full traffic load	7 days for chemical load at 20 °C / 68 °F
Surface hardness	Shore hardness A: Approx. 83 - DIN 53505 (after 7 days)
Density	Components A + B: Approx. 1.34 kg/l DIN EN ISO 2811-2 (20 °C / 68 °F)
Viscosity	Components A + B: Approx. 1800 mPas DIN EN ISO 3219 (23 °C / 73.4 °F)
Color	Grey
Storage conditions	12 months (originally sealed) Store in dry and frost-free conditions. Ideal storage temperature is between 10 - 20 °C / 50 - 68 °F. Bring to a suitable processing temperature before application. Tightly re-seal opened packages and use up the content as soon as possible.
Package	Hobbock 26.5 kg (combi packaging)

Mixing

weber marine VEM PU-10 is available in specified quantities as combi-bundles. Combo-packaging will be supplied in the correctly measured mixing ratio. The package of component A has sufficient volume to contain the entire packaging unit. Empty all of the hardener compound B into the resin. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 - 3 minutes until a homogeneous, streak-free compound forms. To prevent mixing errors, empty („repot") the resin/hardener mixture into a clean container and mix it once again briefly.

Work instructions

Built-up of coats

Wall coating made of weber marine VEM PU-10 and steel plate on top

- Apply the PU 3510 Marine Wall wall coating with a notched trowel (Rectangular toothing 4 mm, e.g. Toothed blade R4 or Pajarito TKB C1), consumption approx. PU 3500: 2.6 - 2.8 kg/m² onto the prepared substrate.
- Insert the steel plate into the fresh but not yet cured material after approx. 10 - 20 minutes and leave pressed on until

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hardened.

Important note: in surfacing structures, products can be applied in practically used systems. These can consist of several IMO-tested combinations. It is possible to install several systems tested as „bottom deck layer" on top of each other. The top layer always corresponds to a tested floor covering.

Processing
Process the material immediately after mixing and spread it over the prepared substrate with a toothed trowel (Rectangular toothing 4 mm, e.g Toothed blade RS4 or Pajarito TKB C1 for approx. 2 mm thickness) in a uniform layer.

Floor and air temperature must not fall below 10 °C / 50 °F and humidity should not exceed 75 %. The difference in floor and room temperature must remain less than 3 °C / 3 K / 5.4 °F so as not to impede the curing process. If a dew-point situation arises, regular curing will not be possible with hardening problems and spotting to occur. Exposure to water should be avoided during the first 7 days. The specified curing times apply for 20 °C / 68 °F; temperatures below this require longer processing and curing times, while higher temperatures require shorter times. If working conditions are not complied with, the technical properties of the end product may deviate from those specified.

Please observe
The product is regulated by the German Ordinance on Hazardous Substances (GefStoffV), the German Ordinance on Industrial Safety and Health (BetrSichV), and transport regulations for hazardous goods. The necessary information is contained in the DIN Safety Data Sheet. Observe all identification information on the container label!

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Disclaimer
As there are different conditions at every opportunity, Weber can not be held responsible for anything other than the information provided under the heading "Product Specification". Examples of information and circumstances, which are outside Saint-Gobain (whether specifically stated or not) include storage, construction, processing, interoperability with other products, workmanship and local conditions.

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