

Product Data Sheet

TEFRO®floor PU-E

Solvent-free 2-component polyurethane resin for exterior decks used as flexible primary deck coverings on ships.

1. Field of Application

TEFRO®floor PU-E is a light weight 2 component polyurethane coating to be used as primary deck covering on exterior decks. This flexible coating is especially suitable as underlayment for TEFROteak® and TEFRO®floor PU Comfort H to serve as sport floors, sun decks or promenade decks.

2. Properties

- Solvent-free
- Abrasion resistant
- Flexible
- Fillable e.g. light-weight-fillers
- Chemical resistant

3. Technical Data

Mixing Ratio	100:13,3	
Solid state	99,2	%
Density	ca. 1,2	g/cm ³
Mix Viscosity	11000 ± 2000	mPa s
Solid Content	98,2	%
Shore - Hardness	D 55	

4. Packing

1 Unit = 28 kg (Comp. A + B = 24,7 kg + 3,3 kg)

1 Unit = 11,33 kg (Comp. A + B = 10 kg + 1,33 kg)

5. Substructure

Requirements

- The substructure needs to be solid, dry, clean and free from grease and oil.
- Temperature of substructure must be higher than + 5°C and 3°C higher than the dew point.
- The condition of the substructure always needs to be checked before application of TEFRO®floor PU-E.

Substructures

a) Steel-decks

- Shop-primed exterior decks must be grinded and primed with one coat TEFRO®prime EP 30.
- If no shop-primer has been applied, please contact us.
- Blasted outside areas are treated with two coats TEFRO®prime EP 30.

b) Aluminium decks and galvanized steel decks of exterior areas

- These surfaces have to be clean, grinded and primed with 1 x TEFRO®prime EP 30.

6. Application Information

Temperature of atmosphere	+10°C	+20°C	+30°C
Potlife (min)	90	45	20
Ready to mechanical strain (d)	2	1	0,5
Ready to chemical strain (d)	4	2	1
Max. rel. humidity in (%)	80	80	80
Pot Life	approx. 90 minutes (+20°C)		
Consumption	approx. 1,2 kg/m ² /mm		
Temperature of Object	min. 5 °C and max. 30 °C		
Product Temperature	min. 15 °C and max. 25 °C		

6.1 Instruction for Use

Mixing

- Mix component A and B in the specified mixing ratio.
- Add component B to component A and mix (approx. 2-3 minutes) until a homogeneous mixture is achieved.
- Mixing to be done at slow speed (300-400 RPM).
- Stir up from the bottom and sides thoroughly to assure that the hardener is equally spread.
- Re-pot the mixture and stir again.

Application

- Spread the homogeneous mixture.
- Use for example a tooth-edged trowel for application.
- Thickness (Technical) 2 - 20 mm.
- If applied in several layers, higher thicknesses are possible.
- The material can be filled with light weight fillers to install higher thicknesses.
- Irregularities to be levelled in a separate working step using unfilled or filled material depending on thickness of coat.
- High temperatures shorten, low temperatures extend the processing time.
- The maximum time for accepting following layers is 24 hours (+20°C).
- For any changes of application, please contact us.

Equipment and Cleaning

- Suitable stirrer, (tooth edged) trowel.
- Clean tools right after use with EP-/PU-Thinner.

7. Product Range

TEFRO®prime EP 30, TEFROteak®, TEFRO®floor PU Comfort H, Poraver 1-2 mm

8. Shelf Life

12 months, in a cool, dry, frost-free place in unopened containers at 5 - 30 °C. In case of discrepancies please contact us!

9. Color

- uncoloured (black)

The color may vary between the batches, due to raw materials and the production process.

10. General Remarks

All mentioned figures and consumption values are results which were determined under laboratory conditions. When using the product on the job, deviating values may result. Lower temperatures delay; higher temperatures accelerate hardening and curing of the product. The specified minimum of the application temperatures have to be followed. No other materials may be added and the mixing ratios are not allowed to be changed.

11. Conformity

The product meets the criteria of IMO FTP-Code 2010, attachment 1, Part 2 und 5. MED Certification and type approvals of other classification societies are available. The conformity is in accordance with the effective regulations 2014/90/EU of 23-July-2014. For the wheel symbol the general principles of article 30, paragraph 1, 3 and 6 of the regulation (EG) no. 765/2008 apply.

12. Safety

Read the hazard notes and safety advices as stated in the safety data sheets and observe relevant instructions of the trade associations.

13. General Note

This product data sheet is based on the latest state of art and our experience and it is giving recommendations based on our best knowledge. However, it is without legal binding and establishes neither a contractual legal relationship, nor a secondary obligation on any sales contract. This product data sheet does not release the buyer or user of the obligation, to check the substructure and the material for the intended purpose. If the buyer or user is going to use the material differently than described above, it needs to be discussed with manufacturer before the application. Without approval of altered use of material, usage is at the buyers or users on risk. This refers especially to combinations with other products. Only product data sheets of latest date are valid.