

Product Data Sheet



TEFROTEX® 100 Prefilled

Self-levelling primary deck covering used as subfloor and levelling compound for floor coverings, coatings, tiles and natural stone on inside decks. For wet areas only upon request. Suitable for layer thickness < 15mm.

1. Field of Application

TEFROTEX® 100 Prefilled is a cement based system for installation of primary deck coverings on inside ship decks. The self-levelling product fulfills the requirements according to IMO FTP Code 2010 as primary deck covering and floor covering. TEFROTEX® 100 Prefilled is supplied as dry mortar in bags and is mixed with water on the job, application by hand.

2. Properties

- | | | |
|-----------------------------|----------------------|----------------------|
| • Early ready to be covered | • Easy application | • Self-levelling |
| • Fast curing | • Very high strength | • Excellent adhesion |
| • One component | • Jointless | • Single layer |

3. Technical Data

| | | | |
|-------------------------|-------------------|-------------|--------------------|
| Packing size | Dry Mortar | 25 | kg |
| Water demand | per bag | 4,5 | ltr. |
| Application temperature | | 5-30 | °C |
| Application thickness | | 1 - 15 | mm |
| Working time (+20°C) | | > 30 | minutes |
| Compressive strength | EN 13813 | C30 | |
| Flexural strength | EN 13813 | F8 | |
| Density cured mortar | EN 1015-10 | approx. 1,9 | kg/dm ³ |
| Fire rating | IMO FTP Code 2010 | Part 5 | |

4. Packing

25,0 kg - bag (one component)

5. Substructure

Requirements

- The substructure has to be dry, clean and free from grease and oil.
- Temperature of substructure should be higher than + 5°C.
- Condition of substructure always need to be checked before application of TEFROTEX® 100 Prefilled.

Substructures

a) Steel-decks

- Steel-decks have to be prepared by the shipyard and treated with a suitable shop primer.
- If this is not the case, please contact us.
- The surface needs to be pre-treated with our bonding agent TEFRO®bond W1 before application of TEFROTEX® 100 Prefilled.

b) Aluminum decks and galvanized steel-decks

- These surfaces need to be clean, grinded and treated with TEFRO®prime EP 30 and TEFRO®bond W1.

c) Cement-based substructures

- Cement-based substructures need to be pre-treated with bonding agent TEFRO®bond W1 diluted by water.

d) Other substrates

- Please contact us.

6. Application Information

Mixing

Application in thickness up to 6 mm:

- Pour 4,5 liters of water into a compulsory mixer or mixing pail.
- Add one bag of TEFROTEX® 100 Prefilled dry mortar while mixing.
- Stir up thoroughly both components.
- Mix until a homogenous and lump-free mixture is reached.

Application in thicknesses from 6 - 10 mm:

- Pour 4,2 liters of water into a compulsory mixer or mixing pail.
- Add one bag TEFROTEX® 100 Prefilled dry mortar while mixing.
- Add 6,5 liters (approx. 10 kg) Quartsand 0,3 - 0,8 mm
- Stir up thoroughly until a lump-free free flowing compound is reached

Application in thicknesses more than 10 mm:

- Pour 4,5 liters of water into a compulsory mixer or mixing pail.
- Add one bag TEFROTEX® 100 Prefilled dry mortar while mixing.
- Add 6,5 liters (approx. 10 kg) TEFROKA® KH Filler.
- Stir up thoroughly until a lump-free free flowing compound is reached.

Application

- Pour out the homogeneous and lump-free mixture.
- For application use f. e. a grouting trowel.
- High temperatures shorten, low temperatures prolong the working time.
- After application protect area from direct sunlight, heat and draft for at least for 24 hours.
- At temperatures of approx. + 20 °C TEFROTEX® 100 Prefilled is ready for foot traffic after approx. 3 hours and fully loadable after 7 days.
- Subsequent deck coverings resp. floorings to be applied only after complete drying.
- Ready to be covered with diffusion tight floorings usually after approx. 3 days at 5 mm thickness, 20 °C room temperature and 65 % rel. humidity
- Observe residual moisture.
- Higher deck irregularities (e.g. dents in steel deck, thick welding seams) can be levelled in advance in a separate working step.
- Please contact us for any other approach of application.

Efficiency

- One bag dry mortar 25,0 kg + 4,5 liters water result in 17 liters.
- 17 liters cover approx. 1,7 m² at 10 mm thickness.
- Consumption Mortar 1,4 kg/mm/m².

Equipment and Cleaning

- Mixing tool, levelling trowel, smoothing trowel
- Rinse out tools with water right after use.

7. System Products

TEFRO®prime EP 30, TEFRO®bond W1.

8. Shelf Life

12 months, in a cool, dry, frost-free place in closed original bags at 10 - 30 °C. In case of discrepancies please contact us.

9. Color

- Grey

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 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 5.

12. Safety

This mineral product is cement based and poor in chromate. Read the hazard notes and safety advices as stated in the safety data sheets.

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 application. Without approval of altered use of material, usage is at the buyers or users risk. This refers especially to combinations with other products. Only product data sheets of latest date are valid.