GTF Freese
Marine Floorings

Product Data Sheet

TEFROTEX® 100

Self-levelling grouting compound for floor coverings, coatings, tiles and natural stone on inside areas.

1. Field of Application

TEFROTEX® 100 is a cement based system to prepare floors on inside ship decks for application of final floor coverings such as carpet, synthetic coverings and reactive resin coatings. The self-levelling product fulfills the requirements according to IMO FTP Code 2010 as primary deck covering and floor covering. TEFROTEX® 100 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	• Jointless	• Excellent adhesion
• One component	• Very high strength	• Single layer

3. Technical Data

Packing size	Dry Mortar	25	kg
Water demand	per bag	6.0	ltr.
Application temperature		5 - 30	°C
Application thickness		2 - 5	mm
Working time (+20°C)		> 30	minutes
Compressive strength	EN 13813	> 30	N/mm²
Flexural strength	EN 13813	> 8	N/mm²
Density cured mortar	EN 1015-10	approx. 1.8	kg/dm³
Fire rating	IMO FTP Code 2010	Part 5	

4. Packing

25 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 needs to be checked before application of TEFROTEX® 100.

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 TEFRO®bond W1 before application of TEFROTEX® 100.

b) Aluminum decks and galvanized steel-decks
• These surfaces need to be clean, grinded and treated with TEFROTEX® SF Primer or TEFRO®prime EP 30 as well as TEFRO®bond W1.

c) Cement-based substructures
• The cement-based substructures need to be pre-treated with TEFRO®bond W1 diluted by water to serve as bonding agent.

d) Other substrates
• Please contact us.

6. Application Information

Mixing

The unfilled compound for thicknesses up to 5 mm is prepared as follows:
• Pour 6.0 liters of water into a 30 l mixing pail.
• Add one bag of TEFROTEX® 100 dry mortar while mixing with a slowly turning mixing device (approx. 400 rpm).
• Stir up both components thoroughly with a slowly turning mixing device (approx. 400 rpm) until a homogeneous lump-free consistency is reached.

Application

• Pour out the homogeneous and lump-free mixture.
• For application use f. e. a grouting trowel.
• For smoothing use a levelling trowel.
• High temperatures shorten, low temperatures extend 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 is ready for foot traffic after approx. 3 - 4 hours.
• Subsequent deck coverings resp. floorings to be applied only after complete drying.
• On oscillating floors TEFROTEX® 100 is used without filler.
• Application thickness 3 - 5 mm.
• Cement-based subfloors need to be treated with TEFRO®bond W1.
• Consumption: approx. 0,08 - 0,12 kg/m².
• For other use than described above please contact us.
• When used as design floor ask for separate recommendations.

Efficiency

• One bag dry mortar 25 kg + 6 liters water result in 17 liters.
• 17 liters cover approx. 3.4 m² at 5 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

TEFROTEX® SF Primer, TEFRO®prime EP30, 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. 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.

10. Conformity

The product meets the criteria of IMO FTP-Code 2010, Annex 1, Part 5.

11. 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.

12. 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.