GTF Freese
Marine Floorings

Product Data Sheet

TEFROTEX® 100 levelling compound

Self-levelling floor levelling compound for floor coverings, coatings, tiles and natural stone on inside decks

1. Field of Application

TEFROTEX® 100 levelling compound is a cement based system to prepare subfloors on inside ship decks for application of final coverings such as carpet, synthetic coverings and reaction resin coatings. The self-levelling product fulfils the requirements according to IMO FTP Code 2010 as primary deck covering and floor covering. TEFROTEX® 100 levelling compound is supplied as dry mortar in bags, mixed with water on the job and applied by hand.

2. Properties

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

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/dm³
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 levelling compound.

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 one of our bonding agents TEFRO®bond W1 or TEFROTEX® SF Bonding Coat before application of TEFROTEX® 100 levelling compound.

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 and one of our bonding agents TEFRO®bond W1 or TEFROTEX® SF Bonding Coat.

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

d) Other substrates
• Please contact us.

6. Application Information

Mixing

The unfilled mixture for thicknesses up to 5 mm is prepared as follows:
• Pour 6 liters of water into a 30-l-pail
• Add one bag TEFROTEX® 100 levelling compound while mixing with a slowly turning mixing tool (approx. 400 rpm)
• Both components to be mixed with a slowly turning mixing tool (approx. 400 rpm) until a homogeneous lump-free compound is reached.

Application

• Pour out the homogeneous lump-free mixture.
• For application use f. e. a levelling trowel.
• Smooth with a smoothing trowel.
• High temperatures shorten, low temperatures prolong the working time.
• After application protect at least 24 hours from direct sunlight, heat and draft.
• At temperatures of approx. 20 °C TEFROTEX® 100 levelling compound is ready for foot traffic after 3 – 4 hours.
• Subsequent coverings resp. final floorings to be applied only after complete drying.

• On vibrating floors the material is used without fillers.
• Application thickness is abt. 3 – 5 mm

• Cementous subfloors have to be pretreated with TEFRO®bond W1.
• Consumption: abt. 0,08 – 0,12 kg/m²

• Please contact us for any other approach of application.

• For use as design floor see separate recommendations.

Efficiency

• One bag dry mortar 25 kg + 6 liters of water result in 17 liters.
• 17 liters cover abt. 3,4 m² at 5 mm thickness
• Consumption dry mortar: abt 1,4 kg/m²/mm

Equipment and Cleaning

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

7. System Products

TEFROTEX® SF Primer, TEFROTEX® SF Bonding Coat, TEFRO®bond W1, TEFRO®prime EP 30

8. Shelf Life

6 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

The color may vary between the batches, due to raw materials and reasons in 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 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. 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

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.