GTF Freese
Marine Floorings

Product Data Sheet

TEFROTEX® 10-L

Self-levelling light weight primary deck covering to be used as underlayment and levelling coat for carpet and elastic floor coverings on inside ship decks.

1. Field of Application

TEFROTEX® 10-L is a cement based deck covering system for installation of floors on inside ship decks. The mortar fulfills the requirements according to IMO FTP Code 2010 as primary deck covering. TEFROTEX® 10-L is supplied as dry mortar in bags and is mixed with water on the job, manual or machine processing.

2. Properties

• Self-levelling	• Low weight	• One component
• Pumpable	• Resistant to high mechanical strain	• Very good adhesion
• Very low emission	• Joint less	• Fast curing

3. Technical Data

Dry Mortar	bag	20	kg
Water demand	per bag	8.6	l
Application temperature		5 - 30	°C
Application thickness		0.5 - 50	mm
Working time	(+ 20 °C)	> 30	minutes
Compressive strength	DIN EN 13892-2	> 20	N/mm²
Flexural strength	DIN EN 13892-2	> 6	N/mm²
Density cured mortar	EN 1015-10	approx. 1	kg/dm³
Fire rating	IMO FTP Code 2010	Part 5	

4. Packing

20 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® 10-L.

Substructures

a) Steel-decks

- Steel-decks have to be prepared by the shipyard and treated with a suitable shop primer.
- If not, please contact us.
- The surface needs to be pre-treated with TEFROTEX® SF Bonding Coat or TEFRO®bond W1 before application of TEFROTEX® 10-L.

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 TEFROTEX® SF Bonding Coat or TEFRO®bond W1.

c) Cement-based substructures
• Pretreatment with TEFROTEX® SF Bonding Coat or TEFRO®bond W1 to serve as bonding agents.

d) Other substrates
• Please contact us.

6. Application Information

Mixing

• Pour 8.6 liters of water into a 30 l mixing pail.
• Add one bag of TEFROTEX® 10-L dry mortar and mix thoroughly.
• Pay attention to the lowest possible air supply when stirring.
• A homogeneous lump-free compound has to result.

Mixing by pump

• When using a suitable pumping system mixing and transport of the material by pump is possible.
• For selection of the correct pumping system please contact our technical department.

Application

• Pour out the homogeneous and lump-free mixture.
• For application use f. e. 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® 10-L is ready for foot traffic after approx. 3 hours and may be fully loaded after 7 days.
• Subsequent deck coverings resp. floorings to be applied only after complete drying.
• Ready to be covered with diffusion tight floor coverings usually after 7 days at 5 mm thickness, 20 °C room temperature and 65 % rel. humidity.
• Residual moisture to be observed (for light mortar systems approx. 4 % as per CM method)
• Larger deck irregularities to be levelled in a separate working step before.
• For other use than described above please contact us.

Efficiency

• One bag dry mortar 20 kg + 8.6 liters water result in 23.8 liters.
• 23.8 liters cover approx. 2.4 m² at 10 mm thickness.
• Consumption Mortar 0.85 kg/mm/m².

Equipment and Cleaning

- Mixing tool, levelling trowel, mixing pail, pump, compulsory mixer
- Rinse out tools and equipment with water right after use.

7. System Products

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

8. Shelf Life

12 months, in a cool, dry, frost-free place in closed original bags at 5 - 30 °C.

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 as well as general rules given for these products.

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.