GTF Freese
Marine Floorings

Product Data Sheet

TEFROTEX® 700

Extremly light-weight, self levelling primary deck covering used as subfloor or levelling compound for inside deck areas.

1. Field of Application

TEFROTEX® 700 is a cement based system for installation of primary deck coverings of very low weight on inside ship decks. TEFROTEX® 700 is suitable for light traffic areas, f. e. cabins. It is supplied as premixed powder in bags and is mixed with water on the job, application by hand or machine.

2. Properties

- Self-levelling
- Pumpable
- Very low emission
- Very low weight
- Good mechanical strength
- Jointless
- One component
- Excellent adhesion
- Quickly ready for foot traffic

3. Technical Data

Dry Mortar		bag	14	kg
Water demand		per bag	7	l
Application temperature			5 - 30	°C
Application thickness			0,5 - 50 mm	mm
Working time	(+20°C)		> 30	minutes
Compressive strength	28 days	DIN EN 13892-2	> 10	N/mm²
Flexural strength	28 days	DIN EN 13892-2	> 3	N/mm²
Density cured mortar		EN 1015-10	0,7	kg/dm³

4. Packing

14,0 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 needs to be checked before application of TEFROTEX® 700.

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.
- Before application of TEFROTEX® 700 the substructure needs to be pre-treated with TEFRO®bond W1.

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 TEFRO®bond W1.

c) Cement-based substructures
• Cement-based substructures need to be pre-treated with TEFRO®bond W1 as bonding agent.

d) Other substrates
• Please contact us.

6. Application Information

Mixing

• Pour 7 liters of water into a compulsory mixer or mixing pail.
• Add one bag of TEFROTEX® 700 premixed powder.
• Stir up both components thoroughly.
• Pay attention to the lowest possible air supply when stirring.
• A homogenous and lump-free compound has to result.

Mixing by pump

• For mixing and transport of the material also a suitable pumping system can be used.
• Please contact our technical department to choose a suitable pumping system.

Application

• Pour out the homogenous, lump-free mixture.
• For application use e.g. a levelling trowel.
• High temperatures shorten and low temperatures extend the working time.
• After application TEFROTEX® 700 needs to be protected for at least 24 hours from direct sunlight, heat and draft.
• At temperatures of + 20 °C TEFROTEX® 700 will be ready for foot traffic after approx. 3 hours, fully cured after approx. 7 days.
• Subsequent floor coverings should be applied only after complete curing of TEFROTEX® 700.
• Diffusion-tight floor coverings can usually be applied after 7 days at 5 mm applied thickness, 20 °C room temperature and 65 % rel. humidity.
• Residual moisture to be observed (for light mortar systems it is 4 % by CM method).
• Larger deck irregularities can be levelled in a separate working step in advance.
• Please contact us for any other approach of application.

Efficiency

• One bag premixed powder 14 kg + 7 liters of water result in 21 liters.
• 21 liters cover approx. 2,1 m² at 10 mm thickness.
• Consumption premixed powder appox. 0,65 kg/m²/mm.

Equipment and Cleaning

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

7. System Products

TEFRO®bond W1. TEFRO®prime EP 30.

8. Shelf Life

6 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, 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.

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 safety advices of trade associations.

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.