GTF Freese
Marine Floorings

Product Data Sheet

TEFROLITH® FTG-35

Insulating ship-floor for A-class 60 divisions as mortar system. Suitable for use in wet areas such as galleys etc. where floating floors are not recommended as well as for cumber levelling.

1. Field of Application

TEFROLITH® FTG-35 is a cement-based mortar system to build A-60 divisions on inside decks of ships. The mortar system fulfills the requirements according to IMO FTP Code 2010 as non-combustible A-60 division for decks. TEFROLITH® FTG-35 typically requires a weight distribution layer, such as e.g. TEFROTEX® 60. The system components are mixed on site and applied by hand.

2. Properties

- Non-combustible
- Type A-60
- Minimum thickness 35 mm for A-60
- Low installation height
- Suitable for wet areas
- Formation of slope
- Low weight
- Jointless

3. Technical Data

Packing size	Dry Mortar - bag	14	kg
Water demand	per bag	7	liter
Application temperature		10 - 30	°C
Application thickness		> 35	mm
Working time	+ 20°C	abt 30	minutes
Compressive strength	DIN EN 13892-2	> 7	N/mm²
Flexural strength	DIN EN 13892-2	> 2	N/mm²
Density cured mortar	DIN EN 1015-10	1.0	kg/dm³
Fire rating	IMO FTP Code 2010	Part 3	

4. Packing

TEFROLITH® FTG-35 primecoat powder 18 kg/bag, TEFROTEX® 60 Emulsion 5,8 kg/cont.
TEFROLITH® FTG-35 maincoat powder 14 kg/bag, TEFROLITH® FTG-35 additive emulsion 5 kg/cont.

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 TEFROLITH® FTG-35.

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.
- Anchoring clips on the deck recommended.
- Anchoring clips to be welded on the deck in approx. 30 cm distance shifted (approx 9 pieces per m²).

b) Aluminum decks and galvanized steel-decks
- These surfaces need to be clean, grinded and treated with TEFROTEX® SF Primer and TEFRO®bond W1.

c) Cement-based substructures
- Apply TEFRO®bond W1 diluted with water as bonding coat.

6. Application Information

Mixing

Preparation of the slurry coat:
- Mix TEFROLITH® FTG-35 Primecoat powder and TEFROTEX® 60 Emulsion until a creamy compound is reached
- The quantity mixed should correspond to the area to be covered.
- Consumption: 1 bag TEFROLITH® FTG-35 Primecoat powder to be mixed with approx. 8.5 l TEFROTEX 60 emulsion (= 1.5 container TEFROTEX® 60 Emulsion)

Application:
- The slurry coat is applied on top of the transparently dried bonding coat.
- Apply to the deck in approx. 2 mm thickness using a broom.

Preparation of the mixing water (to be used with TEFROLITH® FTG-35 maincoat powder):
- 1 container (5 kg) TEFROLITH® FTG-35 additive emulsion to be poured in approx. 200 l water (clean metal or plastic vat).
- Mix thoroughly.

Mixing of TEFROLITH® FTG-35 maincoat powder:
- 1 bag TEFROLITH® FTG-35 maincoat powder (14 kg) to be filled into a compulsory mixer.
- Add approx. 6 l of above mixing water.
- Mix until a uniform wet consistency is achieved.

Application:
- The TEFROLITH® FTG-35 maincoat has be applied directly on top of the still wet TEFROLITH® FTG-35 primer coat (fresh in fresh).
- Rub the mixture with a float and smooth it with a smoothing trowel.
- Minimum thickness as per A-60 approval = 35 mm.
- Drying up to application of the weight distribution layer minimum 3 - 5 days (+ 20 °C)
- Apply weight distribution layer
- The weight distribution layer (TEFROTEX® 60) is applied directly on top of the still wet slurry coat (details on application TEFROTEX® 60 see product data TEFROTEX® 60)
- For deviating use please contact us.

Equipment and Cleaning

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

7. System Products

TEFROTEX® SF Primer, TEFRO®bond W1, TEFROTEX® 60 Emulsion

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

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 3. 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.