

Floor 4660 Marine Elastic

1, 13/02/2008

To replace ABS 600 Marine Elastic

Product description

Floor 4660 Marine Elastic is a cement based pumpable fibre reinforced levelling material for steel decks. It is supplied as a pre-blended dry powder designed for application at thicknesses between 2 and 30 mm if hand applied, or 4-30mm if pumped. Normal thickness is between 6-10 mm.

maxitFloor 4660 meets all fire technical requirements as a subfloor for floor covering in passenger/merchant vessels and offshore installations according to IMO res. A.687 (17)

Field of application

Floor 4660 Marine Elastic is designed as a underlayment screed for use on steel decks as either a bonded or floating screed. Floor 4660 is used in marine applications in light traffic areas and should be finished with a floor covering such as PVC, vinyl, linoleum, ceramic tiles, carpets etc. floor 4660 is casein and protein free.

Working instructions

Light ventilation in the work area is necessary but windows and openings must be closed sufficiently to avoid draughts during and after application. Indoor and floor temperature must exceed +10C during and after application and for one week after that. The relative humidity of the ambient air must not exceed 70% to allow efficient drying of the primer.

Substrate

Floor 4660 is designed for levelling of steel decks which have been treated with an anti-corrosion coating. Floor 4660 may be used as a floating floor when special glass fibre mesh is incorporated into the screed. (Please contact maxit's Technical Department for full details). When maxit's special glass fibre mesh is used, the minimum layer thickness of a floating floor is 20mm.

Preparation and Priming

The substrate should be clean, free from dust, grease and other impurities that might prevent adhesion. Floor 4716 Primer should be applied to the prepared surface using a soft brush or a primer pump, avoiding ponding, and allowed to become touch dry (3-4 hours under good conditions or over night dependant upon conditions). After application and whilst the primer is still fresh, it should be lightly brushed to ensure a complete uniform film has been applied. The function of the primer is to improve adhesion to the substrate.



Mixing

Floor 4660 should be applied using a mixer pump approved by maxit. The material is mixed with 17% water, which corresponds to 4.3 litres per 25Kg bag. Do not use excessive water. While mixing, the water content should be checked continuously by the flow ring test. Ensure that the material is correctly mixed and free from separation. It is important to add the stipulated amount of water as excess water will reduce strength, increase shrinkage and encourage segregation. Conversely reduced water content increases viscosity. The temperature of the mix should ideally be between +15C and +20C. For hand application, mix the material thoroughly for 1-2 minutes using a powerful mixer tool

Application

The maximum width of the pumpable area varies from 6-8 metres depending on the pump capacity and application thickness. Wider areas can be temporarily divided with stop-ends. Pumping is carried out in sections so that a new section is pumped as quickly as possible in order to maintain a wet edge. A wide spatula or spiked roller should be used to assist the self levelling process.

Overlay

Floor 4660 Marine Elastic must be covered with a floor covering such as PVC, vinyl, linoleum, ceramic tiles, carpets etc. The underlayment must not be covered or used without a floor finish.

Storage

Storage time in dry conditions and closed packages is 6 months.

Package

- 25 Kg bags on plastic wrapped pallet

Drying time

Foot traffic 1-3 hours

Final covering 1-3 days

Environmental advice

- Low alkalinity
- Recyclable raw materials
- Low emissions
- Casein free

Safety instruction

Hazardous – contains cement, which is alkaline when wet and can cause skin irritation. Use eye protection, gloves and barrier cream and avoid prolonged skin contact. Avoid inhalation of dust. Wash skin contamination away with warm, soapy water. Remove splashes to the eyes by prolonged irrigation and consult a doctor. Do not ingest. Refer to Health and Safety Data Sheet.

Certificate ISO 9001	Certificate ISO 9001
Maximum thickness	30mm
Minimum thickness	2 mm
Recommended layer thickness	6-10 mm
Water demand	4.3 litres per bag (17%)
Adhesion strength 28 d,,	>1.0 N/mm ²
Compressive strength (28 day)	>25 N/mm ²
Flexural strength (28 day)	8 N/mm ²
Shrinkage (28 days)	<0.05%
Flow rate according to (maxit standard)	205-220 mm
Flow rate according to (Flow ring 50 x 22 mm)	135-145 mm
Hardening time (before foot traffic)	1-3 hours
Physical requirements (Reaction to fire)	A2fl - s1 A1-301 Primary deck covering, Marine EN 13501-1, IMO FTPC Part 6 and IMO FTPC Annex2, section 2.2

Chemical requirements (of cured material) Approx. 11

Recommended water content 17 %

Pot life 15-20 minutes (after adding water)

Density 1700 kg/m³

Material consumption,
1mm = 1.7Kg
5mm = 8.5Kg
10mm = 17.0kg

[DNV USCG approval](#)
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