

Weber.floor 4665 Marine Fire

Product description

Weber Floor 4665 Marine Fire is a cement based, pumpable levelling material for installations requiring fire insulating constructions with non-combustible materials according to IMO Res. A.754(18). It is supplied as a pre-blended dry powder, water is added on site of construction. The screed can be applied by hand or by pump, and requires only light mechanical handling to achieve adequate evenness. The screed attains a high surface strength and is walkable after 6-12 hours. Covering can be done after 1-3 days. Note that the curing time depends on the ambient and substrate temperatures and the relative humidity.

For special applications not covered in this datasheet, please contact Weber. Also refer to applicable national regulations.

Properties

- Low alkalinity, acts as an alkaline barrier
- Recyclable raw materials
- Low natural emissions
- Casein free

Substrate

The substrate should be Rockwool Marine Slab 140 (or similar insulation with minimum density of 140 kg/m³), minimum 50 mm thick. Alternatively, 200 kg/m³ insulation can be used to give a more stable and firmer substrate.

Preparation and Priming

All joints in the insulation and to adjoining structures must be sealed/taped carefully. Lay the insulation boards with staggered joints. Reinforcement netting 100 mm wide, wire grade 3, should be attached and netting laid with 50 mm overlap carefully fastened.

Pre-treatment

The dry mix material should be kept in a heated area before use. Strongly cooled material conveys a risk that some additives will not be able to dissolve during admixture. Too high temperature will change the fluidity of the compound, eg. lead to premature gelling. The dry mix and work area temperature should be 10-30°C.

Mixing

The material is mixed with 17% water, which corresponds to 4.3 litres per 25 kg bag. 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. A flow ring test should be performed to ensure that the correct amount of water has been used. Also ensure that the mixture is homogenized and free from separation. The temperature of the mix should ideally be 10-30°C. The water temperature must not exceed 35°C. The open time is 15-20 minutes after mixing with water. Mixing by hand: Pour water in a suitable mixing vessel before adding the dry material. Limit the amount of dry material to 3-4 bags per batch, giving a total volume of 60-80 liters. Use a powerful drill with paddle and mix thoroughly for minimum 2 minutes. Mixing by pump: Floor 4665 Marine Fire should ideally be mixed using a Weber mixing



pump. For more information on Weber mixing pumps see separate datasheets.

Application

Hand application:

Start in the farther end of the work area and distribute the screed in parallel with an end wall. The application should always finish by an exit/opening. If possible, use two or more mixing vessels to make sure there is always fresh screed available during the application. A wide spatula or steel trowel must be used to assist the self-levelling process.

Pump application:

The maximum width of the pumpable area varies from 6-8 metres depending on the pump capacity and application thickness. Wider areas should be temporarily divided with stop-ends. Pumping is carried out in sections; a new section is pumped as quickly as possible slightly on top of the adjoining section. A wide spatula or steel trowel must be used to assist the self-levelling process.

Overlay

Floor 4665 Marine Fire must be topped with Weber Floor 4660 Marine Elastic. Ceramic tiles can, however, be applied directly on top of Floor 4665.

Storage

Storage time in dry conditions and closed packaging is 6 months. Longer storage times may have an adverse impact on the levelling properties.

Package

- 25 kg bags on plastic wrapped pallet (40 bags per pallet)
- 1000 kg big bags

Drying time

Foot traffic 6-12 hours
Final covering 1-3 days

High humidity and poor drying conditions prolong the curing time.

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.

Product Specification

Material consumption	1 mm/m ² = 1.7 kg 5 mm/m ² = 8.5 kg 10 mm/m ² = 17.0 kg
Application temperature	10-30 °C
Open time	15-20 minutes (after adding water)
Hardening time	
before foot traffic	6-12 hours at 20°C and 50% RH
Hardening time	1-3 days
Minimum thickness	25 mm
Maximum thickness	50 mm
Water demand	4.3 litres per 25 kg bag (17%)
Compressive strength	
Compressive strength class	C20 EN 13813
28 day	Mean value 26 MPa EN 13892-2
Flexural strength	
Flexural strength class	F6 EN 13813
28 day	Mean value 6.8 MPa EN 13892-2
Shrinkage	
28 days	< 0.5 mm/m EN 13454-2
Flow rate according to	
EN norm	120-130 mm EN 12706 (ring 30x50 mm)
maxit standard	205-220 mm maxit Standard method 99:03 (ring 68x35 mm)
Density	
Loose bulk density	1700 kg/m ³
Chemical properties	
pH	11 (approximately)

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Documents

[ce_deklaration_floor_4665 Marine Fire_weber-eng.pdf](#)