

PRODUCT DESCRIPTION

Cemart Marine Screed is a pumpable fibre reinforced and self-smoothing screed for laying on painted and rust protected steel decks. The material is based on High Alumina Cement, aggregates, supplementary binders and chemical admixtures. It is a pre-blended dry powder, designed for use with only the addition of water. The material is well designed for application with automatic mixer pumps.

APPLICATIONS

Cemart Marine Screed is designed to be a subfloor in ships and oil rigs. The adhesion to a painted metalsurface that has been painted with "Anti corrosion paint or primer" is extremely good. A key for this good adhesion is the use of Cemart primer "CEMPRIME". The material is safe for potential water damage. Cemart Marine Screed can be applied with an automatic continuous mixer pump (without mortar hopper). In small areas it can be mixed in a barrel or drum and then be spread out on the floor. The material can be applied in layers from 2 up to 30 mm. Depending on the temperature, foot step traffic is possible after 1 – 2 hours and final heavy loading after 1 – 3 days due to conditions on site.

SUBFLOOR

Cemart Marine Screed should be laid on a well prepared subfloor. The surface must be clean and free from rust, dust, grease or other weak materials which may reduce the adhesion. Steel plates must be protected against rust by using a shop primer. It is important to inform that Cemart Marine Screed is based on High Alumina Cement that does not give protection to rust due to its low pH-value. After cleaning and preparation of the sub-floor the surface must be primed with diluted CEMART CEMPRIME 1:2, (1 part primer + 2 parts water). The primer must dry out and form a film which is a bit sticky when you step on it. The lowest temperature to form film is + 6°C. The recommended working temperature is 10 – 15°C.

TECHNICAL DATA

Water volume 18 % - 50 % R.H. - temperature during processing 20 ° C

Flexural Strength:	6 N/mm ² after 28 days
Compressive Strength:	25 N/mm ² after 28 days
Adhesion to a primed metal deck:	> 3 Mpa
VOC value:	Free from Ammonia and Formaldehyde
Particle size:	Max 1 mm
Free shrinkage:	<0.5‰ measured at 50% RH.
PH value:	In fresh mortar ~11.5 , in cured mortar ~ 9.5
Water stability:	Water stable. (Expansion under water < Free shrinkage)
Material consumption:	Approx. 1,75 kg per mm thickness/m ²

PROCESSING DATA (at 20°C)

Water admixture:	18 % (4.5 litre / 25 kg bag)
Flow ring test:	150 – 155 mm.
Minimum application temperature:	+6°C;

Dry powder density:	Approx. 1,5 g/cm ³
Wet density:	> 1,9 g/cm ³
Open time:	Approx. 25 minutes, depending on temperature
Curing time:	1 – 2 hours for foot traffic 24 hours for light traffic 1 week for full loading
Storage:	6 months in dry conditions

MIXING

Cemart Marine Screed is recommended to be mixed in an automatic continuous mixer pump (without mortar hopper) due to its relatively short open time. In small areas it can very well be used a barrel and an electrical drill with a whisk. It is important that the material must be out on the floor within 15 minutes after mixing. Only use clean potable water with a maximum temperature of +20°C at a rate of 4.5 litre per 25 kg bag. Adjust the water amount with the automatic mixer pump so the flow ring gives a 150 – 155 mm outflow.

CLEANING

All tools and equipment should be cleaned promptly with water.

APPLICATION

Door thresholds, stairs, drains and gullies should be isolated with foam barrier strips. Larger areas should be divided into bays. Normal width of the bay 6 – 10 metres, depending on the pump capacity.

HEALTH AND SAFETY

Hazardous – contains cement, cement moist is corrosive. Protect eyes and prevent prolonged skin contact, keep out of reach of children, For further information refer to Health and safety data sheet.

LABELLING:

HEALTH AND SAFETY



Hazardous, contains cement and quartssand

TRANSPORTATION Not a classified product

GENERAL

The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However, the client is obliged to determine himself whether the products are suitable for use. The characteristics given here are average values, obtained at 20°C and 50 RH, and were drawn up according to the current state of technology. As of publication, the present technical descriptions will replace all previous ones.

Please take into account different local conditions such as ventilation, floor temperature and humidity.
Do not process at temperatures below +5°C.
High humidity and low temperatures slow down the constriction and the curing.
Do not add other products!