

SELF-LEVELLING, FIBRE-REINFORCED SUBFLOOR FOR SHIP DECKS AND OFF-SHORE STRUCTURES

PRODUCT DESCRIPTION

CEMART MARINE SCREED is a pumpable fibre-reinforced and self-smoothing screed. 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 for applying on painted and rust protected steel decks of ships and oil rigs. The adhesion to a metal surface that has been painted with "Anti corrosion paint or primer" is extremely good. The material is safe for potential water damage.

USER GUIDE

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. Application at a thickness between 2 to 30 mm per layer. Under normal conditions foot-step traffic onto the floor is possible after 1-2 hours.



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ADVANTAGES

- Marine Wheel certified
- Flexible: follows the distortion of the subfloor
- Nonflammable
- Remarkable smoothness
- Maximum adherence
- Fast curing
- Seamless
- Shrinkproof and tension free

TECHNICAL DATA

Water content 18%. 50% RH and temperature of 20°C during processing

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 N/mm ²
VOC-value	free from ammonia and formaldehyde
Particle size	max. 1 mm
Free shrinkage	< 0,5‰ (measured at 50% RH)
pH-value	Fresh mortar approx. 11,5, cured mortar approx. 9,5
Flowability (Flow ring test SS 923519 (diam.50x23mm))	150 - 155 mm
Water stability	water stable(expansion under water < free shrinkage)
Material consumption	approx. 1,75 kg per mm thickness/m ²

PROCESSING DATA

Water admixture	18% (4,5 liter/25 kg bag)
Min. floor 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 the 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, max. 20°C and 50% RH

SUBFLOOR

CEMART MARINE SCREED should be laid on a well prepared subfloor.

PREPARATION OF THE SUBFLOOR

The surface to be treated 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 CEMPRIME AC 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.

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 is possible to use 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.

CLEANING

All tools and equipment should be cleaned promptly with water.

APPLICATION

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

HEALTH AND SAFETY



Contains quartz and cement, cement moist is corrosive. Protect eyes and prevent prolonged skin contact, keep out of reach of children. CEMART MARINE SCREED does not contain casein or other protein bearing additives that develop ammonia during the curing process. For further information refer to the safety data sheet of CEMART MARINE SCREED.

Transport: No 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!

Consult our web site www.cemart.eu to download the latest version of our technical data sheet.
