



LEFT. Costa Smeralda, owned by Costa Crociere, it is the fifth largest cruise ship in the world and the second to be fully powered by liquefied natural gas (LNG).

BELOW. Mapei products were used to bond and grout ceramic tiles and mosaics in several areas such as the Colosseo theatre and the spa.

Finland/Italy

Costa Smeralda cruise ship

SPECIFIC PRODUCTS BY MAPEI MARINE ON BOARD OF THIS EXCELLENCE-CLASS CRUISE SHIP

Costa Smeralda is the largest ship ever commissioned and operating for Costa Crociere, which is part of the Carnival Corporation & plc Group. At 185,010 gross tonnage (GT), it is the fifth largest cruise ship in the world and the second to be fully powered by liquefied natural gas (LNG).

The ship hosts 1,550 balcony cabins, 13 swimming pools and hot tubs, 11 restaurants and snack bars, 19 bars and lounges. Guests on board can enjoy an aqua park on the highest deck of the ship, a next-generation spa and gym, performances and shows every night at Colosseo theatre and much more.

The cruise ship was built by Meyer Turku, a Finnish shipbuilding com-

pany owned by Meyer family. One of the leading European shipbuilding companies, Turku Shipyard was founded in 1737 and, today, has Tim Meyer as its managing partner.

Safe solutions for beautiful interiors

Mapei Marine, a subsidiary of the Group specialized in the marine sector, and Mapei OY, the Group's Finnish subsidiary, delivered several products to prepare the substrates and install floor and wall coverings in this cruise ship.

The floor substrates in corridors were levelled with ULTRAPLAN MARINE 1400, one-component, fibre-reinforced, rapid-hardening cementitious self-levelling mortar, which is often

used for internal bridge decks on ships.

On the other hand, MAPEDECK LITESCREEED was used to level off substrates on top of steel decks in the Colosseo theatre. This is a two-component polyurethane resin-based formulate which can ensure high-strength and good resistance to chemicals and abrasion.

ULTRAPLAN MARINE FIRE self-levelling, fibre-reinforced cementitious mortar was also used in internal areas to level off substrates before installing floor coverings.

Ceramic tiles and mosaics were bonded in several public areas (spa, shops, Colosseo theatre) with KERAPOXY, KERAFLEX MAXI S1 and ULTRALITE S2 adhesives. In some

internal areas, such as the spa, ULTRABOND ECO PU2K, two-component, solvent-free, high performance polyurethane adhesive with very low emission level of volatile organic compounds (VOC), was also applied on the aluminum substrates of walls to bond different types of ceramic tiles. Joints were grouted with ULTRACOLOR PLUS anti-efflorescence, quick-setting and drying polymer-modified mortar or with KERAPOXY epoxy grout where a higher protection against bacteria and chemicals was required. KERAPOXY DESIGN grout was instead used where a higher decorative effect was needed.



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Find out more
MAPEDECK LITESCREEED

TECHNICAL DATA

Costa Smeralda cruise ship, Finland/Italy
Period of construction: 2018-2019
Period of the Mapei intervention: 2018-2019
Owner: Carnival

Corporation & plc
Main contractors: Meyer Turku, Neptun Werft
Mapei Marine coordinator: Lindholm Jesse, Mapei OY (Finland)
Photos: Meyer Turku

MAPEI PRODUCTS

Levelling substrates: Ultraplan Marine 1400, Mapedeck Litescreed, Ultraplan Marine Fire
Installing ceramic tiles: Kerapoxy, Ultrabond Eco PU 2K, Keraflex Maxi S1,

Ultralite S2
Grouting joints: Kerapoxy Design, Kerapoxy, Ultracolor Plus

For further info on products visit mapei.com