



PROJECT SHEET

Waterproofing the Rampart Walkway

SAINT-MALO, FRANCE

THE PROJECT

Construction of the Saint-Malo ramparts began in 1144. Three-quarters of the enclosure were replaced between 1708 and 1742 by military engineer Siméon Garangeau, who extended the city and restored a large part of the southern and eastern walls, bringing the total length to 1,754 meters and increasing the inner city area from 16 to 24 hectares. A significant transformation campaign also took place during the 19th century. Spared from the American bombings in August 1944, the Saint-Malo ramparts have been classified as historical monuments since the decree of 12 July 1886.

The city of Saint-Malo launched a project to

restore a section of the chemin de ronde to protect and preserve these centuries-old masonry works, which are also heavily exposed to weathering and salt.

Lefevre Centre Ouest, under the project management of the Adeficio agency, removed the stone slabs to carry out waterproofing with a natural cement PROMPT mortar. After this stage, the craftsmen re-laid the stone slabs on a screed of lime/PROMPT mortar, completing the joints with the same mixture to ensure enhanced durability.



Owner _____

Saint-Malo

Architect _____

AEDIFICIO, Stéphane Berhault

Contractor _____

Lefevre Centre Ouest

Duration _____

4 months

Delivery date _____

April 2023



TECHNICAL APPROACH

Surface preparation:

- Removal and storage of the slabs
- Cleaning and dusting of the substrate

Waterproofing mortar:

- Dosage: 25 L sand (0/4) + 25 kg CNP + 1 TEMPO retarder dose
- Apply 3 cm thick layer, compact and smooth before setting

Application:

- Spread the mortar to a minimum thickness of 3 cm, pressing it firmly onto the substrate to ensure proper adhesion
- Smooth and compact the mortar before it begins to set

Mortar for slab bedding and joints:

- Binder: 300 kg/m³ (30% CNP)
- Dosage: 130 L sand (0/4) + 35 kg NHL 5 lime + 4 kg CNP
- Pigment 'terre d'ombre' added for color matching

+ VICAT ADVANTAGES

- Technical support



PERFORMANCE REQUIREMENTS



Waterproofing



Rapid setting in marine conditions



Durability



For more information, contact Jean-Philippe Bruasse, Technical Trainer & Advisor PROMPT:

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