

# ARTOPIERRE TF/TM

- Good workability
- Matt appearance of the stone

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## MORTAR FOR CUT STONE REPAIR

FACADE ■ HERITAGE



### DEFINITION

Mineral mortar, white or self-coloured, ready-mix, designed for traditional repair work on cut stone or architectural ornaments; by volume regeneration, trimming-up and jointing.

*Produced to specifications*

### FINISH APPEARANCE

- Mat appearance of cut stone
- A mixture of TF / TM and colouring by oxides or natural earth to reproduce the original appearance

### PROPERTIES

- Good workability, suitable for very detailed ornaments.
- Suitable for modelling and template shaping
- Can be worked like cut stone: rubbed down, cut or sculpted.

### SUBSTRATES

#### SUITABLE SUBSTRATES

- Fine grain soft to hard limestone for ARTOPIERRE TF.
- Medium grain soft to hard limestone for ARTOPIERRE TM.
- For granite, sandstone, gneiss or molasse, test suitability first (choice of grain and hardness).

#### UNSUITABLE SUBSTRATES

- Roughcast and/or gypsum plaster coated masonry, paint, thick plastic coatings.

### SPECIFICATIONS

#### Composition

- Binder: Predominantly non hydraulic lime with hydraulic admixtures to control setting. Non hydraulic lime/binder = 70 % by volume.
- Calcareous and siliceous sand: grading 0 - 0.3 mm (ARTOPIERRE TF) 0-1.5 mm (ARTOPIERRE TM).

#### Performances

	ARTOPIERRE TF	ARTOPIERRE TM
• Apparent density	1,2	1,5
• Dynamic elasticity modulus (MPa)	3 000	5 000
• Tensile strength (MPa)	1,1	1,4
• Compressive strength (MPa)	2,5	4
• Shrinkage at 28 d. (mm/m)	0,9	0,75
• Capillarity coefficient (g/dm <sup>2</sup> .min <sup>1/2</sup> )	4,8	4
• Permeability (g/m <sup>2</sup> . h. mmHg)	0,95	0,75
• Open porosity (%)	>30	>30
• Soluble salts (%)**	0,09	0,12

*All results quoted are average values calculated from laboratory results obtained by standard procedures.*

*\* Data for information only: variable according to the conditions of use and the nature of the substrates.*

*\*\* Na+ and K+: According to the method approved by the L.R.M.H.*

### INSTRUCTIONS

#### Substrate preparation

- Treat rising damp (e.g.: with 232 PARINJECTION).
- Consolidate with DURCIPIERRE\* low cohesion surfaces to be repaired. Treated areas should only be repaired after a minimum of 14 days drying.
- Clean moss-covered surfaces with 251 LANKOMOUSSE\*.
- Remove loose or damaged materials (sound stone should be removed for a thickness of at least 5 mm).

- Mark out the repair area (square or rectangle) by cutting clean dovetail edges, to fit the repair satisfactorily into its environment respecting the shape of the appliance.
- Mechanically fix a frame\*\* suitable for the shape and weight of the repairs when they are more than 3 cm thick.
- Remove all dust and moisten the substrate right through, while wiping the surface dry.

*\* Refer to the data sheets concerned.*

*\*\* Frames: screws, mesh, stainless metal wire, copper, brass or glass fibre treated against corrosion.*

#### Tools

- Manual application: Steel trowel, serrated trowel, knife, French drag, electric drill.

#### Product preparation

- Tools: Trowel or electric drill (low speed: 300 rpm).
- Water dosage: 6 to 7 litres per 30 kg bag.
- Mixing time: 3 minutes approx.

ARTOPIERRE TF can be mixed with ARTOPIERRE TM in any proportion to obtain the closest texture to the stone.

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# ARTOPIERRE

## TF/TM

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### MORTAR FOR CUT STONE REPAIR

#### APPLICATION

- Always apply in successive passes, fresh on fresh, either on a bonding slurry of FIXOPIERRE diluted to 10%, or a base coat of ARTOPIERRE mixed with this solution.

#### TRIMMING-UP

- Surface trimming-up 0.5 to 1 cm thick. Apply in one squeezed coat, fresh on fresh, with **ARTOPIERRE TF** on the base coat.
- Trimming-up of 0.5 to 3 cm thick facing. **ARTOPIERRE TM** can be used in a 1st filler pass and the TF/TM finish will be done according to the appearance of the stone to be repaired with ARTOPIERRE TF or TM or a mixture of the two products.

#### 0.5 TO 5 CM RECONSTITUTION OF MASS

- For thicknesses greater than 3 cm, fix a frame suitable for the weight and shape of the repair. If necessary shutter. **ARTOPIERRE TM** can be used as a filler; the finish will be done according to the appearance of the stone to repair with **ARTOPIERRE TF** or **TM** or a mixture of the 2 products.
- From 0.5 to 5 cm:  
Apply ARTOPIERRE in 2 or 3 squeezed passes, fresh on fresh, with a thickness of 2 cm per pass.
- Up to 10 cm:  
The application must be in two coats with a maximum thickness of 5 cm, at intervals of 6 to 24 h depending on the atmospheric conditions.  
The 2<sup>nd</sup> coat is applied after stiffening of the 1<sup>st</sup>, in a squeezed coat, scratched and moistened if necessary.

#### REJOINTING

- Preferably use ARTOPIERRE TF squeezed with a jointing tool.

#### FINISHING

- The product can be shaped before hardening and recut on hard mortar using traditional stone working tools.

PRODUCT	Can be modelled in its plastic phase	Can be re-cut
ARTOPIERRE TF	2 - 4 h maximum	from 24 h up to 72 h
ARTOPIERRE TM	2 - 4 h maximum	from 12 h up to 48 h

\* Data for information only: variable according to the conditions of use and the nature of the substrates.

#### COLOURING

- ARTOPIERRE TF and TM can be coloured on-site during mixing with mineral oxides (up to 100 g/bag) or natural colouring earth (up to 300 g/bag).

#### PROTECTION AND STORAGE RECOMMENDATIONS

- If necessary consolidate demineralised stones and the whole of the face wall with DURCPIERRE\*:  
- 7 days minimum after ARTOPIERRE
- If necessary waterproof with 231 LANKOFUGE\*:  
- Minimum 28 days after ARTOPIERRE and 14 days after DURCPIERRE.
- Replace 231 LANKOFUGE\* waterproofer by BIO-GRAFFITI PROTECTION\* on particularly exposed surfaces.

#### MINIMUM CONSUMPTION

- **12 kg/m<sup>2</sup>/cm thickness for ARTOPIERRE TF,**
  - **15 kg/m<sup>2</sup>/cm thickness for ARTOPIERRE TM.**
- The consumption varies according to the state of the substrate and the conditions of application.*

#### INSTRUCTIONS FOR USE

- Product for use by professionals familiar with cut stone restoration techniques (pre-test recommended).
- Don't start any work before identifying the nature of the substrate and the damage.
- Do not apply at temperatures below + 5°C and above + 30°C (above + 30°C take special precautions).
- Do not apply to substrates that are frozen or wet, in rainy or foggy weather, or in high dry and warm winds.
- Protect face walls during works.
- ARTOPIERRE TF or TM must be used and implemented in accordance with their technical specifications and data sheets.

\* Refer to the data sheets concerned.

#### PACKAGING

30 kg bag: 2 paper covers and 1 polyethylene cover.  
1.2 tonne covered disposable pallet.

#### SHELF LIFE

12 months from the date of manufacture in its original packaging, unopened, and stored protected from the damp.

#### WARRANTY

■ Manufacturer's P.L.

#### REFERENCE DOCUMENTS

- Manufacturer's specifications
- AFNOR Classification NF B 10-301

The purpose of this data sheet is to provide information on the properties of the product. The information herein is based on our current knowledge. It is up to the user to check on the suitability of the product for the desired usage and to check whether this sheet has been replaced by a more recent edition.

**TECHNICAL ASSISTANCE:** ParexGroup S.A. provide information and assistance to companies that request it for starting a project in order to clarify specific requirements for the implementation of the product (or process). This assistance cannot be assimilated into either the design stage of the project, or the acceptance of the substrates, or to a check on the implementation rules.

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