

MORTIER PIERRE TF/DM

- Speed of execution
- Reconstitution of deep areas
- Matt stone finish

1/2

M O R T A R F O R D R E S S E D S T O N E R E P A I R

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DEFINITION

Quick-setting white or colour-impregnated ready-mix mineral mortars, designed for traditional repair work on dressed stone or architectural decorative elements and for pointing.

Produced to specifications

FINISH APPEARANCE

- **Matt appearance of dressed stone**
- **A mixture of TF / DM and colouring by oxides or natural earth to reproduce the original appearance**

PROPERTIES

- Reconstitution of deep areas and quick setting.
- Suitable for modelling and can be shaped to a template
- Can be worked like dressed stone: rubbed down, cut or sculpted.
- Pointing and repointing of dressed and sculpted facings.

SUBSTRATES

SUITABLE SUBSTRATES

- Soft to moderately hard limestone for MORTIER PIERRE TF.
- Moderately hard to hard limestone for MORTIER PIERRE DM.
- For granite, sandstone, gneiss or molasse, test suitability first (choice of grain and hardness).

UNSUITABLE SUBSTRATES

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

SPECIFICATIONS

Composition

- Specific hydraulic binder and non hydraulic lime.
Non hydraulic lime/binder = 40% by volume.
- Calcareous and siliceous sand: grading 0 - 0.3 mm (MORTIER PIERRE TF)
0-1.5 mm (MORTIER PIERRE DM).

- Mineral and organic admixtures.
- Mineral pigments.
- Appearance: white powder; can be coloured on site or colour-impregnated.

Performances

	MORTIER PIERRE TF	MORTIER PIERRE DM
• Apparent density	1,2	1,5
• Dynamic elasticity modulus (MPa)	4 000	5 600
• Tensile strength (MPa)	1,3	4,1
• Compressive strength (MPa)	4	10,6
• Shrinkage at 28 d. (mm/m)	1,15	0,65
• Capillarity coefficient (g/dm ² .min ^{1/2})	3,6	3,5
• Open porosity (%)	>30	>30
• Soluble salts (%)*	0,06	0

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 surfaces to be repaired that lack cohesion with DURCPIERRE*. Treated areas should only be repaired after drying for a minimum of 14 days.
- Clean moss-covered surfaces with 251 LANKOMOUSSE*.
- Remove any loose or damaged materials (sound stone should be removed to 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 while respecting the type of bonding.
- Mechanically fix a reinforcing framework** suitable for the shape and weight of the repairs when they are more than 3 cm thick.
- Remove any dust and soak the substrate right through, but the surface should be dry.

** Refer to the data sheets concerned.*

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

Tools

- Manual application: trowel, smoothing trowel, rendering knife, stone plane, electric drill.

Product preparation

- Tools: trowel or electric drill (low speed: 300 rpm).
- Water content: 7.2 to 7.8 litres per 30 kg bag (MORTIER PIERRE TF).
5.2 to 5.7 litres per 30 kg bag (MORTIER PIERRE DM).
- Mixing time: approx. 3 minutes.

MORTIER PIERRE TF can be mixed with MORTIER PIERRE DM in any proportion to obtain the closest possible texture to the stone.

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MORTIER PIERRE

TF/DM

2/2

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APPLICATION

- Always apply an adhesive key coat of MORTIER PIERRE TF or DM, pressed down well into the substrate in order to optimise the bonding of the following coat.

0.5 TO 10 CM RECONSTITUTION OF MASS (with reinforcing framework for thicknesses over 3 cm)

- Without supporting formwork: spray on the first pass, pressing down firmly on the key coat and then continue, wet-on-wet in successive passes.
- With supporting formwork: fill the area over the key coat layer in one operation.

POINTING AND REPOINTING OF DRESSED AND SCULPTED FACINGS

- Fill the joint while applying pressure before creating the desired finish.

FINISHING

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

COLOURING

- MORTIER PIERRE TF and DM 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 stone and the whole of the face wall with DURCPIERRE*:
 - 7 days minimum after MORTIER PIERRE
- If necessary, waterproof with 231 LANKOFUGE*:
 - Minimum 28 days after MORTIER PIERRE and 14 days after DURCPIERRE.
- Replace 231 LANKOFUGE* waterproofer with BIO-GRAFFITI PROTECTION* on particularly exposed surfaces.

MINIMUM CONSUMPTION

- 12 kg/m²/cm thickness for MORTIER PIERRE TF,
 - 15 kg/m²/cm thickness for MORTIER PIERRE DM.
- The consumption varies according to the state of the substrate and the application conditions.*

PRODUCT	Modellable in its plastic phase	Can be re-cut
MORTIER PIERRE TF	30 mins to 1 hr	from 1 hr up to 24 hrs
MORTIER PIERRE TDM	30 mins to 1 hr	from 30 mins up to 24 hrs

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

INSTRUCTIONS FOR USE

- Product intended for use by professionals with an excellent command of dressed stone restoration techniques (preliminary test recommended).
- Do not apply at temperatures below + 5°C and above + 30°C (above + 30°C take special precautions).
- Do not apply to frozen or wet substrates in rainy or foggy weather or in high, dry and warm winds.
- Protect face walls throughout the duration of works.

* Refer to the data sheets concerned.

PACKAGING

30 kg bag; 2-ply paper and 1-ply polyethylene.
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

- AFNOR Classification (NF B 10-301)
- Specifications

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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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