

# MORTIER PIERRE TF / DM



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### PRODUCT FEATURES

- ▶ Rapid repairs, reworkable before hardening
- ▶ Large thickness reconstitution
- ▶ Precise, meticulous reproduction of natural stone

### WATER DOSAGE

- ▶ **MORTIER PIERRE TF:**  
5.4 to 5.9 litres per 25 kg bag
- ▶ **MORTIER PIERRE DM:**  
4.3 to 4.8 litres per 25 kg bag

### MINIMUM CONSUMPTION

- ▶ **MORTIERPIERRE TF:** 12 kg/m<sup>2</sup>/cm thickness
- ▶ **MORTIERPIERRE DM:** 15 kg/m<sup>2</sup>/cm thickness

### DESCRIPTION

- Ready-to-mix white or through-coloured mineral mortar intended for traditional repairs to dressed stone or architectural elements.
- **MORTIER PIERRE (TF and DM)** is suitable for reconstituting medium thickness coatings (0.5 to 10 cm) and for repointing stonework.
- Fast repair mortar, can be reworked before final hardening (30 min to 1 hour after application).
- Just like dressed stone, **MORTIER PIERRE** can be cut, sanded and sculpted. It also behaves and ages like stone.
- Thanks to its very low soluble salt content **MORTIER PIERRE** ensures greater durability.
- Produced to manufacturer's specifications.

### FINAL APPEARANCE

- Matt appearance of dressed stone.
- It is possible to combine **MORTIERPIERRE TF** and **DM** and also to colour with mineral oxides or natural soils to match the original texture and appearance.

### PERFORMANCE CHARACTERISTICS

- See table below.

### USES

#### PERMISSIBLE SUBSTRATES

- **MORTIERPIERRE TF:** Fine-grain soft to firm calcareous stone.
- **MORTIERPIERRE DM:** Medium-grain firm to hard calcareous stone.
- For granite, sandstone, gneiss or molasse, carry out a preliminary test to check for adaptability (choice of grain and hardness).

#### NON-PERMISSIBLE SUBSTRATES

- Stone placed on the ground, basements and underground walls.
- Stone substrates covered with paint or thick acrylic coatings.

### SPECIFICATIONS

#### COMPOSITION

- **Binder:** specific hydraulic binder and hydrated lime (lime/binder ratio  $\geq 45\%$  by volume)
- **Calcareous and siliceous sands**
- **Particle size:**
  - **MORTIER PIERRE TF:** 0-0.5 mm
  - **MORTIER PIERRE DM:** 0-1.6 mm
- **Mineral and organic additives**
- **Mineral pigments**

#### INSTRUCTIONS

- Preparation and application of **MORTIER PIERRE** must be performed in compliance with the manufacturer's specifications and this Technical Data Sheet.

#### EQUIPMENT

- **Manual application:** smoothing trowel, round-nose trowel, pallet knife, nail float.

#### SUBSTRATE PREPARATION

- Treat rising damp with **232 PARINJECTION**.
- Reinforce areas with weak cohesion using **DURCIPIERRE**. Minimum drying time before performing repairs = 14 days).
- Decontaminate areas covered with moss using **251 LANKOMOUSSE**.
- Remove any loose or damaged elements (the stone must be cleaned down to a depth of at least 5 mm).
- Set out the repair zone (square or rectangular) by making clean edges in a dovetail shape to integrate the repair into its surrounding area whilst respecting the shape of the dressing.
- Affix reinforcement mesh for repairs exceeding 3 cm thickness.
- Dust and dampen the substrate until it is saturated, but not running with water.

	MORTIERPIERRE TF	MORTIERPIERRE DM
Apparent density	1.2	1.5
Modulus of dynamic elasticity	4000 MPa	5600 MPa
Tensile strength	1.3 MPa	4.1 MPa
Compressive strength	4 MPa	10.6 MPa
Shrinkage after 28 days	1.15 mm/m	0.65 mm/m
Capillarity index	1 g/dm <sup>2</sup> .min <sup>1/2</sup>	1 g/dm <sup>2</sup> .min <sup>1/2</sup>
Permeance	0.95 g/m <sup>2</sup> .h. mm Hg	0.75 g/m <sup>2</sup> .h. mm Hg
Open porosity	> 30 %	> 30 %
Soluble salts (a)	0.06 %	0 %

All of the above-mentioned values are average results of standardized laboratory procedures. Data varies according to conditions of use and substrate type.

(a) Na<sup>+</sup> and K<sup>+</sup>, according to method approved by the LRMH (historical monuments research laboratory).

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## PACKAGING

- ▶ 25 kg bag
- ▶ **MORTIER PIERRE TF:**  
Pallet containing 48 bags (1 200 kg)
- ▶ **MORTIER PIERRE DM:**  
Pallet containing 24 bags (600 kg)

## STORAGE

- ▶ **12 months**  
from date of manufacture if stored in unopened original packing in dry conditions

## WARRANTY

- ▶ Manufacturer's liability

## ■ PRODUCT PREPARATION

- **Equipment:** trowel or slow-speed paddle mixer (300 r.p.m.)
- **Water dosage:**
  - **MORTIER PIERRE TF:**  
5.4 to 5.9 litres per 25 kg bag
  - **MORTIER PIERRE DM:**  
4.3 to 4.8 litres per 25 kg bag
- **Mixing time:** 3 minutes approx.
- Always apply a dash-bond coat of **MORTIER PIERRE TF** or **DM** in order to lubricate the surface and optimize bonding of the next coat.

## ■ APPLICATION

- **Without formwork:** spray a first coat onto the dash-bond coat and then build up to the desired thickness with wet-on-wet successive coats.
- **With formwork:** fill in one go with a direct application onto the dash bond coat.

### Mass reconstitution of thicknesses from 0.5 to 10 cm

- **Without formwork:** spray a first coat onto the dash-bond coat and then build up to the desired thickness with wet-on-wet successive coats.
- **With formwork:** fill in one go with a direct application onto the dash bond coat.

### Pointing and repointing cut and sculpted stonework

- Fill the joint and press firmly until the desired finish is obtained.

The product can be reworked/reshaped before hardening and recut on hardened mortar with traditional stonecutting tools: *See table below.*

PRODUCT	Workable and recutable in plastic phase	Recutable
MORTIER PIERRE TF	30 min to 1 hour	1 hour approx. to 24 hours
MORTIER PIERRE DM	30 min to 1 hour	30 min approx. to 24 hours

Data varies according to conditions of use and substrate type.

**MORTIER PIERRE** is available in 12 different shades. *See colour chart below.*



Please note that printing processes do not allow an exact reproduction of colours. These examples are provided for guidance purposes only.

## ■ PRECAUTIONS

- This product is intended for use by professionals who have an excellent knowledge of techniques for restoring dressed stonework (preliminary test recommended).
- Do not undertake any work without first ascertaining the nature of the substrate and the cause of any problems.
- Temperature range for use: + 5°C to + 30°C.
- Above + 30°C, special precautions must be taken (protection, dampening...).
- Do not apply to a frozen or damp substrate. Do not apply in rainy, foggy, windy or dry & hot conditions.
- Protect the façade from the elements during application.
- Suitable Personal Protective Equipment must be worn (gloves, clothing, goggles).
- Please refer to the relevant Safety Data Sheet.

**TECHNICAL ASSISTANCE:** ParexGroup S.A. will, on request, provide information and assistance to companies in relation to the specific use of a product. Such assistance shall not be assimilated with structural design and conception, nor the compliance of substrates, nor as a control of usage rules in force.

**TECHNICAL DATA SHEET ISSUED - September 2017**

The information provided in this document results from our knowledge of the products and our experience. Prior to application, customers and users are requested to check that they are in possession of the latest version of this document. Please check for updates at [www.parexlanko.com](http://www.parexlanko.com)

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