



# P.T.B.- REFRACTAIRE-M

<b>CE</b> 0965		
POLYTECHNISCH BEDRIJF BVBA/SPRL – P.T.B.-COMPAKTUNA® INDUSTRIEPARK ZWIJNAARDE 6 9052 GENT – BELGIUM		
06 030/CPR/100323 EN 998-2		
P.T.B.-REFRACTAIRE-M Droge metselmortel voor normaal gebruik/Prestatiemortel/binnen en buiten Mortier à maçonner sec à usage courant/mortier performant/intérieur et extérieur Trocken Mauermörtel für allgemeine Verwendung/nach Eignungsprüfung/Innen und Außen Dry masonry mortar for normal use/performance mortar/internal and external use TYPE G		
Druksterkte/Compression/Druckfestigkeit/Compressive strength	Klasse/Classe	M50
Chloridegehalte/Teneur en Chlorures/Chloridgehalt/Contents of chloride		max. 0,02% Euroclass A1
Brandveestand/Résistance au feu/Brandverhalten/Reaction to fire		0,11
Waterabsorptie/Absorption d'eau/Wasseraufnahme/Water absorption	kg/m <sup>2</sup> ·min <sup>0,5</sup>	15/35 (TV)
Waterdampdoorlatendheid/Perméabilité à la vapeur d'eau/ Wasserdampfdurchlässigkeit/Water vapor permeability	μ	1,07 W/m.K (TV,P=50%)
Thermische geleidbaarheid/Conductivité thermique, Wärmeleitfähigkeit/Thermal conductivity	λ <sub>10, dry, mat</sub>	1975 +/- 25
Volumieke massa/Masse Volumique/Dichte/Density	kg/m <sup>3</sup>	



## Qualities



+30°

+5°

## Refractory mortar



P.T.B.-REFRACTAIRE-M is a ready-to-use refractory mortar, that at the same time has faster bonding characteristics than a traditional mortar.

P.T.B.-REFRACTAIRE-M is used for building and jointing brick chimneys, fireplaces, barbecues, chimney pots, etc.

TECHNICAL PARAMETERS	Category and values conform NBN EN 998-2
Compressive strenght (after 28 days)	≥ 50 N/mm <sup>2</sup> => <b>M50</b>
Flexural strenght (after 28 days)	≥ 8 N/mm <sup>2</sup>
Water absorption	0,11 kg/m <sup>2</sup> ·min <sup>0,5</sup>
Density mortar	ca. 2100 kg/m <sup>3</sup>
Density hardened mortar	ca. 1975 kg/m <sup>3</sup>
Thermal conductivity (λ)	1,07 W/m.K
Durability (freeze-thaw cycles)	ca. 25 N/mm <sup>2</sup>

Mixing ratio	Consumption	Packaging
Masonry/ plastering: ± 3.75L to 5L water/ bag of 25 kg (15 to 20%). Grouting: ± 2.5L to 3.75L water/bag of 25 kg (10 to 15%).	Masonry/plasterwork: ± 1.8 kg/mm/m <sup>2</sup> in powder. Jointing: ± 250 g/running meter	5 & 25 kg PE
Colours	Processing time	Application temperature
Brown-grey	Max. 45 min.	+ 5°C till + 30°C

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## Directions for use

Use always a substrate that is clean and if necessary moisten it.  
For masonry, P.T.B.-REFRACTAIRE-M is prepared with  $\pm 15$  to 20% water.

For jointing P.T.B.-REFRACTAIRE-M is prepared with  $\pm 10$  to 15% water.  
After a few days of hardening, heating is applied gradually.

## Remarks

- P.T.B.-REFRACTAIRE-M is a ready-to-use product. No cement, plastic dispersion, sand, pebbles or other additives may be added.
- P.T.B.-REFRACTAIRE-M can be used for applications up to + 550°C.

## Packaging

P.T.B.-REFRACTAIRE-M is available in brown-grey in polyethylene bags of 25 kg and 5 kg. The shelf life is 12 months in the original, closed packaging and kept dry.

