



# TECHNICAL DATA SHEET

## MARCOTECH+ TYPE N MORTAR MIX



### PRODUCT DESCRIPTION

The MARCOTECH+ Type N 1.1.6 mortar mix is a pre-blended and pre-packaged mix of Type S hydrated lime and Portland cement mainly used for laying bricks, blocks, stones and other masonry products. Product may be used both inside or outside. It's unique formulation provides better bonding and workability. Improved maniability, excellent resistance to freeze-thaw cycles and water. THE MARCOTECH Type N 1.1.6 Mortar conforms to CSA A179-04 for Type N mortar with the addition of water.

### RECOMMENDATIONS

- The substrate and mortar temperature should be between 5° et 38° C (40° et 100° F). and maintain this temperature for 72 hours after mortar application.
- Never use on-site admixtures to modify product properties or setting time and workability.

### DIRECTIONS

#### • Mixing

In a clean container or mixer, pour approximately 5 litres of water (1,3 US gallon), and slowly add a MarcoTech+ Type N 1.1.6 mortar bag, mixing at slow speed for 3 to 5 minutes.

#### • Application

When surrounding temperature is equal or superior to 25°C (77 °F), the mortar mix must be applied or used in less than 1 ½ hour after mixing and in 2 ½ hours, if temperature is below 25 °C (77°F). Any unused mortar left over after this period must be thrown out. Protect from exposure to rain, sun and wind for the first 72 hours. Immediately after use, all tools must be cleaned while the product mix is still fresh or malleable. To achieve a smooth finish, this task must be performed as soon as the mortar starts losing its elasticity.

#### • Precautions

Wash your hands and skin when in contact with the product. The hydrated lime, cement and silica contained in the product may cause skin and eye irritations. Refer to the MSDS sheet for first aid treatment.

### PACKAGING

This product comes in 30 kg (66 lb) bags or Super Sacs of 1500 Kg (3300 lb).

### STORAGE

Store this product in a covered and dry area away from the weather. Unopened bags have a 12 month shelf life. Product exposed to water, high moisture levels causing it to harden in the bag must be discarded.

### TECHNICAL DATA

#### TYPE N 1.1.6 Mortar Mix (in bag)

Physical aspect, color	Powder grey
Shelf life	12 months in original package in a dry and protected area
	Refer to the MSDS sheet

#### HEALTH AND SAFETY

#### MORTAR (after mixing)

Mixing proportions (metric)	5.0 litres of water / 30 kg bag
Mixing proportions (impérial)	1.3 US gal./ 66 lb. bag
pH	12
Application temperatures	5°C to 38°C (40°F to 100°F)
Density	1900 kg/m3
Water retention	70 % Minimum
Air Content	18 % Maximum

### STRENGTH REQUIREMENTS

Compressive strength requirement-ASTM C109 (CSA-A5)	
7 days	4.7 MPa (681 psi)
28 days	7.4 MPa (1073 psi)
Flexion resistance-ASTM C348	
7 days	3.6 MPa (522 psi)
28 days	3.8 MPa (551 psi)
Adherence CSA A23.2-6B	0.5 MPa (73 psi)
(28 days)	
Shrinkage ASTM C-596 (91 jours)	0,14%
Freeze-thaw resistance-ASTM C666	>130
Vapor transmission ASTM E96	20
Yield (per 30 kg bag )	0.019 m³ (0.67 pi³) 50 bricks or 16 blocks

Note: The coverage information is approximate and may be used for estimating only. The proper or real consumption will always depend on the actual surface, it's true profile, the type of equipment used, mixing techniques as well as a wastage percentage.

### WARRANTY

Sable Marco inc. warrants this product when used according to the technical data sheet instructions and specifications. The materials used in making this product are of the highest quality. Sable Marco inc. will not provide any other guarantee expressed or implied. Sable Marco's warranty is limited to the replacement or reimbursement of the product (when proven defective).

### TECHNICAL INFORMATION

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