

# remba



The solution for a permanent in ground marking.

## 1. Product Description

**Remba™** is a high performance concrete especially designed for use in **permanent in ground markers** in the underlying stone or concrete pavers. It is distinguished by:

- a complete filling at the same level as the substructure (*see pictures below for example*);
- an exceptional resistance to compression and abrasion;
- adhesion perfectly adapted to severe climate conditions;
- proven durability to de-icing salts;
- optimal implementation for the realization of small details (*as small as 2mm*);
- pigmentation that is safe from UV rays.

## 2. Manufacturer

**Premier jet inc.**

608, Principale St.

Lac-Drolet, Quebec G0Y 1C0

Tel.: 819-549-1190

info@premier-jet.com

www.premier-jet.com

## 3. Application

**Remba™** is designed to allow for **permanent in ground intervention** within the framework of signs used as ground markers, landscaping and urban design projects.

This unique concrete represents a durable alternative to ground painting **by eliminating all long-term upkeep.**



*Remba permanent marking in concrete paver*



*Remba permanent marking in granite paver*

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## 4. Technical Information

### a) Remba™ concrete properties

Compression resistance > 70 MPa in 28 days (> 10.1 ksi)  
ASTM C109 standards

Freeze / thaw resistance 100% durability after 300 freeze / thaw cycles  
ASTM C666 standards No pigment deterioration was observed

Coefficient of thermal dilation In the order of 14 micrometers per meter for a variation of 1 °C  
Based on ASTM C531 standards (7.8 millionths of an inch per inch per °F)

Distortion measure Concrete has minimal shrinkage according to CSA A23.1-09 standards;  
Based on ASTM C157 standards shrinkage after drying 28 days: < 400 micrometers per meter (400 millionth of an inch per inch)

### b) Performance of Remba™ concrete inserted into the stone or concrete substructure

Tearing Resistance to adhesion  $\geq 1.7$  MPa ( $\geq 245$  psi)  
CAN/CSA-A23.2-6B standards based on ASTM C1583  
\*Standard recommendations: resistance to adhesions  $\geq 0.9$  MPa ( $\geq 130$  psi)

Scaling resistance No detachment or scaling, residue weight 0 g/m<sup>2</sup> (0 lb/yd<sup>2</sup>)  
Tests based on ASTM C672 standards  
\*Results after 50 freeze/thaw cycles immersed in de-icing salt solution of 4% Ca(Cl)<sub>2</sub>

Drying resistance No detachment after 50 days  
Tests based on ASTM C157 standards  
\*Under room conditions of 22 °C and 50% relative humidity

Carbonation resistance No pigment deterioration  
\*Accelerated ageing in an atmosphere of 4% CO<sub>2</sub> during 50 days

Pigment resistance to UV rays Mineral based pigments resistant to UV rays

## 5. Coloring Choices

Contact us to know more about our coloring choices!