

Pozilite HB

PRODUCT DESCRIPTION

Ramset Pozilite™ HB is a heavy-duty polymer modified, high build structural repair reinstatement mortar with high ultimate compressive strength and abrasion resistance.

The product is shrinkage compensated, which allows it to be used for vertical, horizontal and overhead application for large or small repairs.

FEATURES

- High build repairs with exceptional performance characteristics.
- Shrinkage compensated allows for long term dimensional stability.
- Low permeability provides protection from chloride attack and carbonation.
- High build repairs can be completed in single application.
- High ultimate strength.
- High abrasion and impact resistance.
- One component just add to water and mix.
- Excellent workability.
- Extremely durable.

RECOMMENDED USES

- Patching and repairing damaged concrete.
- Structural repairs in horizontal, vertical and overhead surfaces subject to high load bearing.
- Terraces, balconies and facades. Repairs where high compressive strength and abrasion resistance is required.
- Repairs to spalled concrete caused by corrosion of steel reinforcement.
- High build application for repairs 10mm to 60mm on vertical substrates.
- Repairs to sewer tunnels, dams, bridges, power stations, concrete tanks.
- Re profiling of worn areas.
- Repairing concrete areas subject to chemical corrosion.
- For below or above ground structures.
- In repairs where high resistance to chlorides and carbon dioxide is required.

PROPERTIES

Table 1. Compressive Strength

Tested in accordance to AS10129.9, AS2073 @20°C.

Age	Compressive Strength
1 Day	26 MPa
3 Days	42 MPa
7 Days	50 MPa
28 Days	60 MPa

Table 2. Flexural Strength

Tested in accordance with ASTM C348-86 at 20°C

Age	Flexural Strength
1 Day	3.7 MPa
3 Days	8.3 MPa
7 Days	9.2 MPa
28 Days	10.2 MPa

Table 3. Bond Strength.

Tested in accordance to ASTM C882 – 1987 Slant/Shear method.

Age	Bond Strength
7 Days	>10 MPa
28 Days	>15 MPa

Table 4. Setting Times.

Vicat setting times at 20°C.

Initial Set	Final Set
2-3 hours @ 20°C	4-5 hours @ 20°C
1-2 hours @ 30°C	2-3 hours @ 30°C

Table 5. Working Times.

Temperature	Working Time (minutes)
10°C	50-65 minutes
20°C	45-55 minutes
30°C	30-40 minutes

Table 6. Traffic time at 25°C @ 50% RH

Loading	Time
Foot Traffic	24 hours
Vehicle Traffic	36-48 hours

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CURING

In hot, dry windy condition all cementitious-based mortars such as PoziLite™ HB must be protected against excessive rapid surface drying and evaporation by application of a curing membrane such as Ramset Cemcrete™. PoziLite™ HB must be cured immediately after finishing in accordance with good concrete practice.

In very extreme temperatures and drying conditions, supplementary curing with polythene sheeting, taped down at the edges, may be required.

Large areas should be cured as trowelling progresses 0.5m² at a time.

POT LIFE

Setting begins after approx. 45 minutes (at 25°C substrate and ambient temperature) from mixing and typically ends after another 50-55 minutes. Ramset PoziLite™ HB should not be used after 55 minutes from time of mixing. The addition of water to the mortar after it has started to stiffen is not recommended and the product should be discarded.

CLEAN UP

Remove uncured Ramset PoziLite™ HB from tools and equipment with clean water immediately after use.

YIELD

The approximate coverage is obtained if mixed in accordance with recommended procedures and accurately measured water content. A 20kg bag of PoziLite™ HB with 3.5 litres of water will yield approximately 11 litres. Approx 90 bags per m³.

STORAGE & SHELF LIFE

Ramset PoziLite™ HB has a shelf life of approximately 8 months if kept in a dry environment completely away from moisture.

PACKAGING

20kg polylined bag.

HEALTH AND SAFETY

Cement products are classified as non-hazardous under General Health and Safety guidelines and materials containing Portland cement are alkaline in nature.

- During use avoid inhalation of dust contact with skin and eyes.
- Suitable protective clothing, dust masks, gloves and eye protection should be worn.
- Repeated or prolonged contact with cement products can cause skin irritation.
- If skin irritation occurs, remove contaminated clothing and flush skin thoroughly with water for a minimum of 15 minutes. Contact Poison Information Centre or consult medical adviser.

Material Safety Data Sheets (MSDS) are available from Ramset. Read the MSDS and product data sheet carefully before using any product. MSDS available from:

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PART NUMBER: RPLHB

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For further information, please contact Ramset™

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