

WABOCRETE II AE

Solvent-free polyurethane mortar for expansion joint

MATERIAL DESCRIPTION

Wabocrete II AE is a three-part polyurethane mortar. Part A is a low-viscosity clear liquid; Part B is a low-viscosity brown liquid; Part C is blend of aggregate and fine reactive powders.

USES

Wabocrete II AE is a versatile product intended for use with expansion joints as a road nosing or transition strip.

BENEFITS

- Tough and hard-wearing
- 20 years proven durability under heavy traffic
- waterproof bond to asphalt, concrete and steel substrates
- Environmentally friendly
- Solvent free
- Easy to use
- Cold applied system
- Pre-packed for reliable results

APPLICATION

Substrate Quality:

Substrates will normally be concrete, asphalt or steel. Other substrates may be suitable; consult your local representative office for advice. All substrates must be clean and free from dust and loose particles. Substrates must be visibly dry and structurally sound to the satisfaction of the engineer. All trace of contaminates, such as oils, greases, chemicals and laitance, should be removed.

Wabocrete II AE is specifically devised to adhere to Neoprene.

Substrate preparation:

Proper surface preparation is vital to ensure the successful application and durable performance of **Wabocrete II AE**. The preferred preparation method is vacuum shot-blasting. Percussive methods, such as scabbling, which may damage the substrate, are not recommended.

Mixing:

Mix complete units only. Discharge Part B into the mixer and stir, add Part A and mix for at least one minute or until homogeneous. Add Part C and continue to mix for 2 minutes.

Under cold conditions all parts should be kept warm, thus ensuring easier mixing and application. Conversely, for hot conditions, it is essential to keep the materials cool to avoid shortened pot life.

A single unit of **Wabocrete II AE** has a pot life of approximately 25 minutes at 15°C. Do not combine and mix more than 2 units of **Wabocrete II AE** at the same time.

Application:

Any formwork should be covered with plastic tape, or similar, to allow easy removal after **Wabocrete II AE** has cured.

Apply **Wabocrete II AE** to the prepared substrate using a steel float to place. Compact by hand and finish using a steel float.

NOTE

Only for new green concrete substrate the epoxy bonding agent must be used as a primer to the properly prepared concrete before the installation of **Wabocrete II AE**. If the concrete substrate is not humid and does not have excess moisture above 4% in it, then do not use the bonding agent. Brush apply the primer to the concrete surface and immediately begin the installation of the **Wabocrete II AE**.

Do not apply **Wabocrete II AE** to a depth of more than 120mm in a single operation. For applications greater than 120mm, apply in 120 mm stages allowing each layer to cure before applying the next one. Hatch each layer to aid keying of the subsequent layer.

Wabocrete II AE operates at temperature ranges from -15°C to +85°C.

WABOCRETE II AE

Solvent-free polyurethane mortar for expansion joint

CURING

Optimum curing will be achieved when ambient temperatures are in the range 10°C-35°C. Setting time at 30°C is 20 minutes.

CLEAN UP

Cleaning of equipment and tools should be carried out well away from the application area. Xylene may be used to clean equipment and tools. Use the correct handling procedures with solvent-based cleaning agents.

COVERAGE

Approx. weight of unit of A, B and C is 25kg. Coverage is dependent upon various factors, including the method of working, site conditions and substrate condition. When the three parts are mixed, 0.012m³ of **Wabocrete II AE** is produced.

TYPICAL PROPERTIES*

Tests at 25°C unless otherwise stated.

Density ASTM D1475	approx. 2037kg/m ³
Compressive strength ASTM C579 1 day 7 days	>10N/mm ² >15N/mm ²
Elongation @ break 7 days	6%
Tensile strength ASTM D638	>3N/mm ²
Bond to concrete 7 days ASTM D4541	>1.8N/mm ²

STORAGE

All parts of **Wabocrete II AE** should be stored under cover and clear of the ground. Storage conditions should be dry, above 5°C and below 30°C. Part A must not be allowed to freeze. All parts should be sealed in their original packaging. Under normal conditions in unopened packaging the shelf is 6 months.

HEALTH AND SAFETY

Appropriate health and safety advice can be found in the Material Safety Data Sheets. Users are advised to wear gloves and eye protection when handling, mixing and applying **Wabocrete II AE**.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

DISCLAIMER

The technical information and application advice given in this MB Construction Chemicals Solutions South Africa (Pty) Ltd publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.