

# WABO<sup>®</sup>CRETE II AE

## Solvent-free polyurethane mortar for expansion joint

### DESCRIPTION

**WABO<sup>®</sup>CRETE II AE** is a three-part polyurethane mortar. Base (PTA) is a low-viscosity clear liquid; Reactor (PTB) is a low-viscosity brown liquid; Aggregate (PTC) is blend of aggregate and fine reactive powders.

### TYPICAL APPLICATIONS

**WABO<sup>®</sup>CRETE II AE** is a versatile product intended for use with expansion joints as a road nosing or transition strip.

### ADVANTAGES

- 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

### TYPICAL PROPERTIES\*

(Tests at 25°C unless otherwise stated)

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

### APPLICATION GUIDELINES

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 **WABO<sup>®</sup>CRETE 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 **WABO<sup>®</sup>CRETE II AE**.

Do not apply **WABO<sup>®</sup>CRETE II AE** to a depth of more than 120 mm in a single operation. For applications greater than 120 mm, 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.

**WABO<sup>®</sup>CRETE II AE** operates at temperature ranges from -15°C to +85°C.

Any formwork should be covered with plastic tape, or similar, to allow easy removal after **WABO<sup>®</sup>CRETE II AE** has cured.

Apply **WABO<sup>®</sup>CRETE II AE** to the prepared substrate using a steel float to place. Compact by hand and finish using a steel float.

### SURFACE PREPARATION

Proper surface preparation is vital to ensure the successful application and durable performance of **WABO<sup>®</sup>CRETE 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 reactor (PTB) into the mixer and stir, add base (PTA) and mix for at least one minute or until homogeneous. Add aggregate (PTC) 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 **WABO<sup>®</sup>CRETE II AE** has a pot life of approximately 25 minutes at 15°C. Do not combine and mix more than 2 units of **WABO<sup>®</sup>CRETE II AE** at the same time.

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## PLACING / APPLICATION

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 contaminants, such as oils, greases, chemicals and laitance, should be removed.

**WABO<sup>®</sup>CRETE II AE** is specifically devised to adhere to Neoprene.

## 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.

## CLEANING

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 / YIELD

Approx. weight of unit of base (PTA), reactor (PTB) and aggregate (PTC) is 25 kg.

Coverage is dependent upon various factors, including the method of working, site conditions and substrate condition. When the three parts are mixed, 0.012 m<sup>3</sup> of **WABO<sup>®</sup>CRETE II AE** is produced.

## STORAGE AND SHELF LIFE

All parts of **WABO<sup>®</sup>CRETE 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.

Shelf life is 9 months under normal conditions in unopened packaging.

## 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 **WABO<sup>®</sup>CRETE II AE**.

\* Properties listed are based on laboratory controlled tests.

BASF\_CC-UAE/WbcretelIAE\_02\_15/v2/07\_15/v3/09\_19

## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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.

## NOTE

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