

# WABO®CRETE II

Solvent-free polyurethane mortar for expansion joint and bearing applications

## Description

WABO®CRETE II 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

WABO®CRETE is a versatile product that is available in two grades: WABO®CRETE II and WABO®CRETE BM.

WABO®CRETE II is intended for use with expansion joints as a road nosing or transition strip. WABO®CRETE BM is intended for use as a bedding mortar for expansion joints and bridge bearings. Applications for both grades are, typically, road bridges and car park structures.

## 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 contaminants, such as oils,

greases, chemicals and laitance, should be removed.

WABO®CRETE II is specifically devised to adhere to Neoprene.

### Substrate preparation:

Proper surface preparation is vital to ensure the successful application and durable performance of WABO®CRETE II. 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 WABO®CRETE II has a pot life of approximately 25 minutes at 15°C. Do not combine and mix more than 2 units of WABO®CRETE II at the same time.

### Application:

Any formwork should be covered with plastic tape, or similar, to allow easy removal after WABO®CRETE II has cured.

Apply WABO®CRETE II to the prepared substrate using a steel float to place. Compact by hand and finish using a steel float.

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## 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 WABO®CRETE II. 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®CRETE II.

Do not apply WABO®CRETE II 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.

WABO®CRETE II operates at temperature ranges from -15°C to +85°C.

## Curing:

Optimum curing will be achieved when ambient temperatures are in the range 10 to 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 39.1kg. Coverage is dependent upon various factors, including the method of working, site conditions and substrate condition. When the three parts are mixed, 0.02m<sup>3</sup> of WABO®CRETE II is produced.

## \*Product data

Typical physical properties (tests at 25°C unless otherwise stated)

Density	1750 kg/m <sup>3</sup>
Compressive strength	
-20°C	25 N/mm <sup>2</sup>
0°C	22 N/mm <sup>2</sup>
+20°C	15 N/mm <sup>2</sup>
Coefficient of thermal expansion (ASTM D696), °C-1	1.5x10-5

## Storage

All parts of WABO®CRETE II 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 12 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 WABO®CRETE II.

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\* Properties listed are based on laboratory controlled tests.

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