

Mortar bonding slurry

E 40 H

for bonded screeds and cement mortars



FEATURES AND BENEFITS

- Reliable adhesive bond, creates a non-positive bond after appropriate substrate preparation.
- Waterproof and frost-resistant, for multiple indoor and outdoor use.
- Very low emissions, GEV-EMICODE EC 1 PLUS R.

FIELDS OF APPLICATION

- For indoor and outdoor use.
- For floor applications.
- Bonding bridge for THOMSIT E 14 B, THOMSIT E 27 M, THOMSIT E 37 M and conventional sand-cement mortars.
- Bonding bridge for producing bonded layers in industrial and commercial buildings and for producing sloping screeds on balconies and terraces.

TECHNICAL DATA

Material

Base material	Special cements with polymers and aggregates
Components	Single-component
Grain size	0 – 2.2 mm
Consistency	powder
Package size	25 kg kraft paper bag with polyethylene lining
Layer thickness	approx. 1.5 mm
Working temperature	+ 5 °C to + 30 °C (substrate and ambient temperature)
Gauging water quantity	
– for 25-kilogram sack	approx. 6.0 litres
– for 1 kg of powder	approx. 240 ml
Mixing time	approx. 3 minutes

Working time*	approx. 1 hour
Storage	Shelf life at least 9 months. Store in a dry place. Do not store for long periods above +30°C.
Consumption	Approx. 2 to 2.5 kg of dry mortar per m ²

*At +23°C and 50% relative humidity. These times will be shorter at higher temperatures and longer at lower temperatures and higher humidity values.

PREPARATION OF SUBSTRATE

The substrate must be clean, structurally sound, open-pored, absorbent and sufficiently rough. In the case of bonded coverings subject to severe use, the concrete substrate must have a grade of at least C 20/25.

Extremely impervious, smooth substrates and layers not able to take loads as well as damaged concrete surfaces must be roughened or removed by suitable means, e.g. blasting with solid abrasives or high-pressure water jets. When reprofiling any surface ruptures (mortar fillings), the edge zones must be laid at an angle of 30° to 60° leaving a rough edge. Prewet the prepared substrate for at least 2 hours, if possible for 24 hours, before applying THOMSIT E 40 H. **Before the slurry is applied, the surface must be moist, but not wet.** Any puddles must be avoided.

APPLICATION PROCEDURE

1. Fill gauging water into mixing container, add THOMSIT E 40 H and mix for at least 3 minutes until the bonding slurry is free from lumps using a suitable paddle mixer (e.g. from Collomix) attached to a high-performance electric drill. Larger quantities can be mixed using a positive mixer.
2. Apply the mixed THOMSIT E 40 H bonding slurry to the prepared surface immediately and work it in thoroughly using a hard broom. Make sure that the entire surface area is covered with the bonding slurry. **Do not allow the bonding slurry to dry!**
3. The screed mortar must be applied **wet on wet** and compacted immediately after the application of THOMSIT E 40 H.

PLEASE NOTE

- Do not apply THOMSIT E 40 H at substrate temperatures below +5°C or over +30°C or in very hot or windy conditions.
- Substrates treated with water-repellent waterproofing agents or evaporation protection must be pre-treated.
- Only mix as much THOMSIT E 40 H as you can use within an hour.
- Apply the slurry in sections in the case of large areas. Any further work must be carried out **wet on wet**.
- The bonding slurry must cover the entire area.
- Never add water or fresh mortar to reconstitute a THOMSIT E 40 H slurry which has already begun to set.
- Suitable tools are available, for example, from Collomix GmbH Horchstraße 2 85080 Gaimersheim/Germany www.collomix.de
- Clean tools and mixing equipment with water immediately after use. When the product has started to set, it can only be removed mechanically by scraping off.
- Shelf life at least 9 months. Store in a dry place. Do not store for long periods above +30°C.

INFORMATION ON THE SAFE USE

THOMSIT E 40 H contains cement: Causes severe eye damage. Causes skin irritation. May cause respiratory irritation. Keep out of reach of children. Wear protective gloves (e.g. cotton gloves soaked in nitrile) and eye/face protection. Avoid breathing dust. If in eyes: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical advice/attention. If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. If on skin: Wash with plenty of soap and water and apply skin cream (pH approx. 5.5). If skin irritation occurs: Seek medical advice/attention. Take off contaminated clothing and wash it before reuse.

The product is non-flammable. No special fire precautions are therefore required.

Water hazard class: 1 (Self-assessment)

Information available from: Product Safety/Environmental department (for health and safety matters):

Phone: +49 821/5901-0

PCI emergency hotline:

Phone +49 180 2273-112

Giscode ZP 1

For further information: see PCI Material Safety Data Sheet.

SERVICE FOR ARCHITECTS AND DESIGNERS

Please contact our sales force if you need advice or building project support. Further documents can be downloaded from the internet at www.thomsit.com.

DISPOSAL

Further information on disposal can be found on our homepage at <http://www.thomsit.de/services-seminare/entsorgungshinweise>. Do not allow the product to enter sewer systems, surface waters or the soil. Only return the completely emptied buckets for recycling. Dried material residues can be disposed of as household waste. Non-hardened product residues must be taken to a collection point for hazardous waste.

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The above information, in particular recommendations for the handling and use of our products, is based on our professional knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for the intended application method and use. Legal liability cannot be accepted on the basis of the contents of this technical data sheet or any verbal advice given unless there is evidence of wilful intent or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.