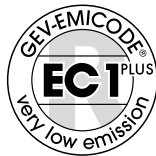




DITRA-X1®

| Premium adhesive for walls and floors

- C2 TE S1 to DIN EN 12004
- For installation of Schlüter®-DITRA and Schlüter®-KERDI product systems
- For laying tiles and natural stone units
- High coverage
- For walls and floors
- For indoor and outdoor use
- DGNB (German Sustainable Building Council): Top quality level 4, Line 7*



| Material properties |

DITRA-X1® Premium adhesive meets C2 TE S1 requirements to DIN EN 12004 while offering excellent workability and adjustable consistency for thin- and floating-bed laying. Adhesive achieves high coverage due to use of special aggregate. DITRA-X1® Premium adhesive is fibre-reinforced, has a very low-emission rating (EC1^{PLUS} R) under EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation) and is low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

| Use |

DITRA-X1® Premium adhesive is a hydraulically setting system adhesive for installation of Schlüter®-DITRA 25, Schlüter®-DITRA-DRAIN, Schlüter®-DITRA-HEAT, Schlüter®-DITRA-SOUND, Schlüter®-KERDI and Schlüter®-KERDI-BOARD. DITRA-X1® Premium adhesive is also suitable for laying ceramic tiles (stone-ware, fully vitrified stoneware), mosaic, discoloration-resistant natural stone units and cast stone units on walls and floors. For outdoor applications subject to particularly critical installation conditions (risk of precipitation or frost) and for laying large-format tiles, use of highly flexible, two-component S2-grade adhesives (e.g. Sopro MEG 665 megaFlex S2 or Sopro MEG 666 megaFlex S2 turbo highly flexible tile adhesive, as specified in system alliance) is recommended.

| Substrates for DITRA-X1® Premium adhesive |

All substrates shall be level, clean, solid, strong and free from any adhesion-impairing substances. Where used in conjunction with Schlüter® products, please observe current version of relevant product data sheet:

- Product data sheet 6.1 Schlüter®-DITRA 25
- Product data sheet 6.2 Schlüter®-DITRA-DRAIN
- Product data sheet 6.3 Schlüter®-DITRA-SOUND
- Product data sheet 6.4 Schlüter®-DITRA-HEAT
- Product data sheet 8.1 Schlüter®-KERDI
- Product data sheet 12.1 Schlüter®-KERDI-BOARD

Direct tile laying on substrate: Suitable substrates include: min. 3-month-old concrete, heated and unheated calcium sulphate screeds (moisture content for unheated screeds ≤ 0.5% CM, for heated screeds ≤ 0.3% CM, adequately ground, vacuum-cleaned and primed), strong board subfloors, heated and unheated cement screeds (min. 28 days old and dry, moisture content ≤ 2.0% CM, heated screeds heated up and allowed to cool in accordance with relevant standards), mastic asphalt screeds (indoors only), strong existing ceramic, natural stone, terrazzo, cast stone or PVC coverings, gypsum plasterboard, gypsum fibreboard and paperless gypsum panels, flush-jointed masonry (no composite masonry), cement and lime/cement renders, gypsum plasterwork, and renders made from masonry cement.

| Substrate preparation |

Primers: Pretreat high- or variable-suction substrates (e.g. calcium sulphate screeds, absorbent cement screeds) and substrates with friable surfaces with Sopro GD 749 primer. Pretreat smooth and closed-pore substrates (e.g. existing tile or terrazzo coverings) or adhesive residue from PVC flooring or carpeting with Sopro HPS 673 bonding primer. Pretreatment with Sopro MGR 637 multi-purpose reaction resin primer, blinded with Sopro QS 511 coarse silica sand, is required where large-format tiles (of size exceeding 0.2 m²) are laid directly on moisture-sensitive substrates (calcium sulphate screeds). Please observe current version of technical data sheet for relevant primer.

Cracks in screed: Fill any existing dynamic cracks in screed with structurally bonding Sopro GH 564 casting resin.

Filler application: Any coats applied for purpose of levelling or providing falls shall always be applied below relevant Schlüter® products. Even out any gross irregularities in (interior) floors using Sopro FS 15 550 floor-levelling compound. On balconies and patios, create falls (where absent) using Sopro RAM3 454 renovation and levelling mortar. In addition, all relevant standards, guidelines and recommendations shall always apply; workmanship shall comply with good practice.

* Based on DGNB (German Sustainable Building Council) criterion „ENV1.2 Local Environmental Impact“ (as at 31.07.2013).

| Application of DITRA-X1® Premium adhesive |

DITRA-X1® Premium adhesive can be applied where substrate and air temperatures lie between +5 °C and max. +30 °C. To prepare DITRA-X1® Premium adhesive, fill clean container with specified water quantity, add DITRA-X1® Premium adhesive and mix mechanically to lump-free consistency. Allow mixed adhesive to mature for 3–5 minutes, then remix thoroughly with machine.

Mixing ratio: Floating-bed consistency: 9.5–10.0 ltr water : 15 kg DITRA-X1®
Thin-bed consistency: 7.5–8.5 ltr water : 15 kg DITRA-X1®

Application: First apply contact layer with finishing trowel, then apply combed bed with notched trowel suitable for Schlüter® products to be bonded and ceramic product size. Apply only as much adhesive as can be covered during open time (approx. 30 minutes).

Working life: Approx. 90 minutes under normal conditions. Stiffened mortar shall not be retempered by addition of water or fresh material to restore workability.

Open time (time until skinning): Approx. 30 minutes; all specified times apply for temperature range of +23 °C and 50 % relative humidity.

Installation of Schlüter®-DITRA: Embed cut-to-size Schlüter®-DITRA sheets over full surface with nonwoven backing in freshly applied DITRA-X1® Premium adhesive. Additionally press down sheets into DITRA-X1® Premium adhesive, working with float or pressure roller in one direction. It is useful to ensure accurate positioning/alignment and gentle tautening of sheets during initial placement. To facilitate application and improve accuracy, installation by two operatives is recommended. Please observe relevant product data sheets.

Recommended serration (depending on substrate and levelness):

- Schlüter®-DITRA 25: 3×3 mm or 4×4 mm serration (see also Schlüter® product data sheet 6.1)
- Schlüter®-DITRA-DRAIN 4: 6×6 mm serration (see also Schlüter® product data sheet 6.2)
- Schlüter®-DITRA-DRAIN 8: 3×3 mm or 4×4 mm serration (see also Schlüter® product data sheet 6.2)
- Schlüter®-KERDI: 3×3 mm or 4×4 mm serration (see also Schlüter® product data sheet 8.1)

For installation of other Schlüter® products, please observe current version of relevant Schlüter® product data sheet:

- Product data sheet 6.3 Schlüter®-DITRA-SOUND
- Product data sheet 6.4 Schlüter®-DITRA-HEAT
- Product data sheet 12.1 Schlüter®-KERDI-BOARD

Installation of ceramic tiles: Ceramic tiles can be laid with DITRA-X1® Premium adhesive immediately after bonding Schlüter®-DITRA 25, Schlüter®-DITRA-DRAIN, Schlüter®-DITRA-HEAT, Schlüter®-DITRA-SOUND, Schlüter®-KERDI or Schlüter®-KERDI-BOARD. Select suitable serration for tile size. Ceramic tiles can also be laid with DITRA-X1® Premium adhesive where no Schlüter® products are installed – see section „Substrates for DITRA-X1® Premium adhesive – Direct tile laying on substrate“.

| Loadability |

Groutable/walkable: After approx. 12 hours or after setting of adhesive. Use of brilliantly coloured Sopro DF 10® flexible designer tile grout is recommended for finishing joints. Take measures to spread loads over floor.

Loadable: After approx. 3 days; in commercial facilities after approx. 14 days; in areas subject to high wet exposure after approx. 7 days

Floor heating: After approx. 7 days in conjunction with Schlüter®-DITRA 25; after approx. 21 days where laid directly on substrate.

| Specified times |

Apply for temperature range of +23 °C and 50 % relative humidity.

| Coverage |

Approx. 0.7 kg/m² per mm coat thickness

| Packaging |

15 kg bag

| Shelf life |

Approx. 12 months (subject to storage on palette in dry conditions in original unopened containers)

| Test certificate |

Technische Universität München: C2 TE S1 to DIN EN 12004

| Licence |

EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1^{PLUS} R („very-low-emission-plus“) rating

| Labelling in accordance with Regulation (EC) No 1272/2008 (CLP) |

GHS05, GHS07

Signal word: Danger

Contains Portland cement and calcium formate. Contains complex mixture of calcium and magnesium silicates and aluminates. Exhibits strong alkaline reaction upon contact with moisture/water; protection required for skin and eyes. All standard precautions for the handling of construction materials/chemicals shall be taken.

| Hazard and precautionary statements |

H315 Causes skin irritation. **H318** Causes serious eye damage. **H335** May cause respiratory irritation.

P102 Keep out of reach of children. **P261** Avoid breathing dust. **P280** Wear protective gloves/protective clothing/eye protection/face protection. **P302+P352** IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P310** Immediately call a POISON CENTER or doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

GISCODE (German hazardous substances classification): ZP 1 - Low-chromate to Regulation (EC) No 1907/2006, Annex XVII

Please observe the current version of the product information, the currently valid declaration of performance under the EU Construction Products Regulation, and the latest version of the relevant safety data sheet to EC Regulation No 1907/2006, also available from the Internet at www.sopro.com! This document serves as a product description and sets out general details, based on empirical and test data, that take no account of specific cases of application. No liability may be construed and no claims shall be accepted in respect of these details. Should you require assistance, please contact our Technical Counselling Service.