

PRODUCT DATA SHEET

SikaCeram® XP 600

(formerly MTile XP 600)

Low-viscosity, ready-mix grout for architectural slabs and block-paved road surfaces, providing enhanced stone anchorage

DESCRIPTION

SikaCeram® XP 600 is a one-component, coloured, polymer-modified cementitious grout supplied as a ready-mixed powder formulated with selected aggregates (maximum particle size 2 mm) and special additives. When mixed with water, it forms a pourable, low-viscosity mortar suitable for grouting wide joints between paving stones and slabs.

Its fluid consistency allows the grout to flow easily into joints and gaps, helping to fill voids and improve contact and anchorage between paving elements and the bedding mortar. The pre-formulated composition ensures consistent performance when mixed with the recommended amount of water, eliminating the need to proportion binders or aggregates on site.

SikaCeram® XP 600 provides high mechanical strength and excellent abrasion resistance. The grouted joints offer enhanced durability, including resistance to freeze-thaw cycles and the aggressive effects of de-icing salts.

Suitable for use in hot and tropical climatic conditions.

USES

- For floor surfaces and drainage channels joints filling
- For grouting mosaic, small-format and large-format paving stones made of natural stone or concrete
- For grouting natural stone coverings that are resistant to staining, using pourable or wet-grouting methods
- Suitable for areas subject to vehicular traffic
- For horizontal (floor) applications only
- Suitable for joint widths of 5 mm and above

FEATURES

- Pourable consistency for effective and complete joint filling
- High wear resistance and durable resistance to weathering and mechanical loads
- Crack-free curing, with no crumbling or detachment of the grout
- Water-impermeable
- Suitable for a wide range of indoor and outdoor applications
- Suitable for wet grouting of paved surfaces
- Suitable for application by pouring onto flagstone surfaces
- Can be adjusted to a thixotropic consistency for application on sloped surfaces

PRODUCT INFORMATION

Composition	Blend of hydrophobic cement, fillers and organic additives
Packaging	25 kg bag
Colour	Available in grey and beige. Other standard colours can be produced upon request. Please contact your local Sika representative for minimum order quantities and colour availability. Colour consistency: Due to the nature of the material and natural variations in filler properties, variations in colour shade may occur. Such variations are inherent to the material and contribute to its natural aesthetic appearance; they do not indicate a product defect.
Shelf life	12 months from date of production
Storage conditions	Store in cool and dry conditions in unopened, undamaged and sealed original packaging at temperatures between +10 °C and +40 °C. Protect from direct sunlight, heat and moisture. Avoid excessive compaction.
Density	~2.2 kg/l (mixed, at +25 °C)
Width	Minimum joint width: 5 mm
Thickness	Minimum joint depth: 25 mm
pH-Value	~12 (in saturated solution, at +23 °C)

TECHNICAL INFORMATION

Compressive strength	≥ 40 N/mm ² (28 days)	(BS EN 13892-2)
Flexural-strength	≥ 6 N/mm ² (28 days)	(BS EN 13892-2)
Shrinkage	≤ 0.15 % (56 days)	(BS EN 12617-4, Clause 6)
Tensile adhesion strength	≥ 1.5 N/mm ² (28 days)	(BS EN 13892-8)
Salt resistance	≤ 200 g/m ² mass loss (28 cycles at temperature range of -20 °C to +20 °C)	(CEN/TS 12390-9) (CDF TEST)

APPLICATION INFORMATION

Mixing ratio	3.0–3.5 litres of clean water per 25 kg bag
Consumption	The consumption of SikaCeram® XP 600 depends on the stone dimensions and thickness, as well as the joint width and depth. As a general guideline, the approximate consumption of mixed material is 2.2 kg/m ² /mm of joint depth, depending on the colour. Note: All values are theoretical and provided for guidance only. Actual consumption may vary depending on stone dimensions, joint geometry, substrate conditions, surface irregularities and material wastage.
Ambient air temperature	+5 °C min. / +45 °C max.
Pot Life	~20 minutes at +20 °C

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

General Method Statement (GMS)

IMPORTANT CONSIDERATIONS

- For hot-weather applications, consult Sika Technical Services for recommendations.
- Apply only when ambient, substrate and stone temperatures are between +5 °C and +45 °C. Higher temperatures shorten, while lower temperatures extend, the working time.
- Do not add other binders or aggregates, exceed the recommended mixing water, or retemper grout that has started to set.
- Underfloor heating must remain switched off during grouting and curing for at least 24 hours.
- Colour shade variations may occur due to differences in filler properties, water content, temperature, ventilation, substrate absorption and curing conditions. Use material from the same batch for the entire project where possible.
- Coloured cementitious grouts may stain certain tiles and natural stones. Pigment residues may also remain in the micropores of polished, fully vitrified tiles. Carry out preliminary trials to assess staining, cleanability and colour compatibility, particularly on polished porcelain, marble, brick and natural stone.
- Frequent or prolonged exposure to acidic cleaners or cement-attacking agents may damage the grout. Do not use acid-based cleaners for routine grout cleaning.
- Staining may also result from moisture migration from the substrate, particularly where the bedding material is soil rather than tile adhesive.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

NOTES ON INSTALLATION

- Ensure the substrate is properly designed and prepared to withstand the anticipated loads and stresses. For existing joints requiring re-grouting, identify and eliminate the underlying cause of deterioration before proceeding.
- Where possible, grout on the same day as stone installation, using the fresh-on-fresh technique before the bedding mortar has fully hardened.
- Apply continuously within each area, avoiding interruptions exceeding two hours.
- Pre-dampen highly absorbent tiles to a saturated-surface-dry (SSD) condition, where appropriate.
- On rough or non-slip surfaces, remove grout residues while fresh. Conduct preliminary grouting and cleaning trials; use a non-woven cloth for sharp-edged tiles.

- If a white cementitious film remains on ceramic tiles, remove it after 2–3 days using a suitable cement stain remover. Pre-wet the surface and rinse thoroughly after cleaning.
- Prevent grout from entering perimeter and movement joints using temporary barrier strips. Remove the strips before applying the elastic sealant.
- Seal movement, corner and connection joints, including interfaces with fitted elements and pipe penetrations, using a suitable Sika® elastic sealant. Where feasible, provide expansion joints along kerbs, pavements, manholes, drains, changes in slope and rainwater channels. A maximum field area of 40 m² is recommended.
- Avoid significant temperature fluctuations, excessive draughts, forced ventilation and strong winds during application and curing.

SUBSTRATE QUALITY / PRE-TREATMENT

- Before grouting, thoroughly pre-wet the stones and ensure that all joints are clean and free from debris, contaminants and standing water.
- Depending on the type and extent of contamination, use appropriate preparation methods, such as pressure washing or abrasive blasting, to remove materials that may impair adhesion. Remove all loose or unsound material and allow the joints to drain before grouting.
- In hot climates or on highly absorbent substrates, pre-dampen the surfaces immediately before application to achieve a saturated-surface-dry (SSD) condition. Avoid ponding or standing water; surfaces must be uniformly damp internally but free of surface water and visible wet sheen.
- Ensure that the substrate, bedding mortar and paving elements are sufficiently stable and that any underlying cause of deterioration or movement has been addressed before grouting.
- Verify that the joint width and depth are suitable for the intended application and that joints are sufficiently open to allow complete grout penetration and filling.

MIXING

- Mix the pre-blended SikaCeram® XP 600 with the recommended amount of clean water per bag, adjusted to the ambient temperature and in accordance with the product instructions.
- Use a suitable vertical pan mixer, or a low-speed drill fitted with a suitable mixing paddle, for at least 3 minutes until a homogeneous slurry is obtained.
- Do not mix by hand. Do not exceed the recommended water dosage, as this may affect the grout's performance and colour consistency.
- Apply the mixed material within approximately 25 minutes at +20 °C. Higher temperatures significantly reduce the working time; prepare only the quantity that can be applied within the available working time.

APPLICATION

- Where possible, apply SikaCeram® XP 600 on the same day as stone installation, using the fresh-on-fresh technique before the bedding mortar has fully hardened.
- Pour the grout directly into the joints or distribute it over the pre-dampened paving surface using a suitable rubber squeegee or rake, ensuring complete and uniform filling across the full joint width and depth. The minimum joint depth is 25 mm.
- Remove excess grout from the paving surface before it hardens, using a suitable cleaning method established through preliminary trials, particularly for porous, textured or stain-sensitive stone, to prevent staining and verify cleanability.
- Where an exposed aggregate finish is required, use a controlled horizontal low pressure water jet to remove the surface grout film. Adjust the water pressure and timing carefully to expose the aggregate without washing out or dislodging the fresh grout from the joints.

CURING TREATMENT

- Protect freshly applied SikaCeram® XP 600 for at least 12 hours against adverse weather conditions.
- Shield from high temperatures using jute sacks or wet hessian, and from rain and freezing conditions using non-woven protective fabric.
- Avoid premature water exposure, condensation and excess moisture during curing.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be mechanically removed

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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ISO 9001, 14001, 45001 – SGS:
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- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Product Data Sheet

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