

Stainer KS

C2TES1 tile adhesive

- For ceramic, glazed, terracotta, and porcelain tiles
- For small, medium, and large tiles (above 1 m)
- Interior and exterior use
- For wall, floor, terrace, and balcony
- Heated and cooled substrates
- For critical substrates
- Bed thickness 2 – 10 mm



PRODUCT DESCRIPTION

The **Stainer KS** is a ready-mixed adhesive containing a carefully selected mix of cement, quartz, mineral fillers, and modifiers. It is a grey, elastic adhesive for ceramic, porcelain, cement, stone (except marble), and terracotta tiles. It is designed for small, medium, and large tiles on rigid and deformable substrates for internal and external areas. It is recommended for fixing cladding in difficult areas: over existing tiles, on terraces, elevations, floor and wall heating, OSB, drywall, and locations with frequent and substantial temperature variations (freezing). It is optimal for concrete substrates, cement and stucco plaster, (fibrous) plaster board, cement and anhydrite screed, heated floors, and areas with water membrane foil or mortar. Brick, hollow clay blocks, aerated concrete, and sand-lime walls.

Conforms to PN-EN 12004-1:2017-1 (EN 12004-1:2017). C2TES1 class.

Declaration of Performance CPR/18/03

SUBSTRATE PREPARATION

The substrate has to be firm, clean, dry, freeze-free, sound, and free from adhesion-degrading substances (such as dust, dirt, or grease). Remove any substrates that do not offer sufficient adhesion (such as old plaster/render, paint). Even out substantial roughness or gaps. Substrates with microbiological infestation should be cleaned and secured with the **Stainer Clean Bio Out**. Infirm substrates should be primed with the **Stainer TG** deep primer. Excessively or unevenly absorbent ones should be primed with the **Stainer UG**.

PRODUCT PREPARATION AND APPLICATION

Mix the bag contents with about 7.0 – 7.5 l of clean water with a low-speed mixer and a cage mixing paddle. Mix until homogeneous, stand for approx. 5 minutes, and then mix again. Apply the product within 2.5 – 3 hours depending on the humidity and temperature. Mix the adhesive every 30 minutes or so.

NOTE: Do not add water or dry mix to a prepared adhesive to change its consistency. Do not try to dilute thick product with water or other liquids. Water overdose is detrimental to all parameters of the adhesive, such as adhesion or flow. Just mix firmly.

How to fix: Apply mixed product onto the substrate with a flat metal trowel and then spread evenly and profile with a notched trowel (for areas not exceeding 1.5 m²). The notch size depends on the type and size of the tile. Remember that the adhesive should cover at least 65 – 70% of the tile and up to 100% in wet or heavy traffic locations to guarantee sufficient adhesion. Cover the entire tile for outdoor floors and cladding and for large tiles.

In such a case, employ a combined method, where the adhesive is applied to the substrate and the underside of the tile. Do not wet tiles before fixing them. The adhesive retains its properties for 30 minutes after it is spread out. Place and press the tiles carefully. Do not butt-joint the tiles. The joint width depends on the tile size. Tiles can be adjusted within 10 minutes after pressing them down by gentle moves in the surface plane. Remove excess adhesive from joints immediately. The tiles can be walked on and grouted not sooner than in 48 hours after installation depending on the temperature and relative humidity.

The adhesive reaches its full operating strength not sooner than after 14 days of application. Floor heating can be used not sooner than after 14 days of installation. Clean the adhesive off the tiles with **Stainer Clean BCW**.

The adhesive is not suitable for evening out large differences in the substrate. Protect the adhesive from frost, precipitation, and strong sunlight during application. Apply in dry conditions, at ambient and substrate temperature from +5°C to +25°C. Protect recently installed cladding from weather conditions until they are cured. All technical details for +21°C and relative humidity of 60%. The pot life and drying time may differ depending on ambient conditions.

CONSUMPTION

Average consumption on an even substrate depending on the trowel notch size:

4 mm	– 1.3 kg/m ²
6 mm	– 2.2 kg/m ²
8 mm	– 2.5 kg/m ²
10 mm	– 3.0 kg/m ²

Any roughness and combined application methods increase consumption.

TOOL CLEANING

Use water immediately after application.

PACKAGING

The **Stainer KS** is supplied in 25 - kg paper bags with double polyurethane film/ Collective packaging: pallet 1200 kg (48 bags). Only completely empty bags can be recycled. Residue material can be considered construction waste.

STORAGE

Protect from moisture and store in a dry place in original packaging on pallets. Seal opened packaging. Shelf life: Twelve months from the manufacture date on the packaging.

SUPERVISION

The product quality is monitored by the Production Facility laboratory in accordance with the applicable reference documents and in-house quality control procedures.

SAFETY GUIDELINES

Reacts with moist/water and produces strong alkali. Protect the skin and eyes. Contains cement. It may irritate the respiratory tract. Wear protective clothing (gloves, protective glasses). Rinse thoroughly after contact with the skin/eyes. Seek medical attention if necessary.

SPECIFICATIONS

High - performance tile adhesive with reduced flow and extended open time for walls and floors indoors and outdoors.

Standard class:	C2TES1
Reaction to fire:	A1
Initial tensile adhesion:	$\geq 1.0 \text{ N/mm}^2$
Durability as strength immersed in water:	$\geq 1.0 \text{ N/mm}^2$
Open time, adhesion after min. 30 min:	$\geq 0.5 \text{ N/mm}^2$
Flow:	$\leq 0.5 \text{ mm}$
Colour:	grey

ADDITIONAL INFORMATION

The manufacturer guarantees product quality but not the application method. All the provided information is based on the manufacturer's best knowledge, but it can in no way replace contractor's expertise and does not replace construction good practices and OSH regulations. Hence, no claims in the court of law can be based on it. In case of a doubt, always test the product and seek advice.

This data sheet replaces all previous ones. Reference documentation for the product is available at www.stainer.pl

REFERENCE DOCUMENTS:

The **Stainer KS** conforms to:
PN-EN 12004-1:2017-03 (EN 12004-1:2017)
Declaration of Performance: CPR/18/03
Hygienic approval No. 410/322/415/2018