

**SILICONE-SILICATE PLASTER WITH  
CARBON FIBER ADDITIONS  
"TREE BARK"  
KTE8320S series**

**TEHKNICAL DATA SHEET**

**Product description:**

<b>Description:</b>	KTE8320S professional products are white structured interior/exterior decorative plasters based on acrylic resins, silicone, silicate and marble grains, reinforced with added carbon fibre. With greater strength than steel, carbon fibre gives the product superior quality by being more resistant to temperature variations and mechanical shocks and prevents the appearance of microcracks. Product can be tinted using KOLOR EXPLORER tinting system.		
<b>Use:</b>	The product is used for special coatings on facades and premises subject to wear and tear (offices, restaurants, storage rooms, children's rooms, stairwells) and premises subject to damp. The product can be used on both interior and exterior, new and old mineral surfaces, plasterboard, concrete, expanded polystyrene or mineral wool, old paints resistant to wear and washing.		
<b>Remark:</b>	<b><u>! Not recommended for application on salt efflorescent surfaces, plastic or wood surfaces, lacquer coatings or oil-based coatings.</u></b>		
<b>Main characteristic elements:</b>	<ul style="list-style-type: none"> <li>• decorative stone dust appearance</li> <li>• high durability</li> <li>• excellent adhesion to the substrate</li> <li>• fast drying</li> <li>• water vapour permeable, with low water absorbability</li> <li>• long-lasting colour resistance to UV rays and weathering</li> <li>• easy application and handling</li> <li>• highly resistant to mechanical shocks (impact, friction, scratching)</li> <li>• anti-mold effect</li> <li>• environmentally friendly</li> <li>• water-thinnable</li> </ul>		
<b>Assortments:</b>	<p><b><u>White plasters:</u></b></p> <ul style="list-style-type: none"> <li>• KTE8320S-10 - 1-1.5mm grain size</li> <li>• KTE8320S-15 - 1.5-2mm grain size</li> <li>• KTE8320S-25 - 2-2.5mm grain size</li> </ul> <p><b><u>Tinting bases</u></b> - colour on KE equipment - Köber exterior card and Collections 2011</p> <ul style="list-style-type: none"> <li>• KTE8320S-10-01</li> <li>• KTE8320S-15-01</li> <li>• KTE8320S-25-01</li> </ul> <p>Ready-made tints according to the sample card:</p> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>• N036 - <b>Walnut</b></li> <li>• G062 - <b>Graphite</b></li> <li>• G061 - <b>Granit</b></li> <li>• A039 - <b>Pineapple</b></li> <li>• A040 - <b>Peanut</b></li> <li>• C041 - <b>Capuccino</b></li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>• S046 - <b>Sesame</b></li> <li>• PA045 - <b>White pepper</b></li> <li>• A056 - <b>Antracit</b></li> <li>• V043 - <b>Vanilla</b></li> <li>• A044 - <b>Anise</b></li> <li>• CC047 - <b>Cream Coffee</b></li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>• N036 - <b>Walnut</b></li> <li>• G062 - <b>Graphite</b></li> <li>• G061 - <b>Granit</b></li> <li>• A039 - <b>Pineapple</b></li> <li>• A040 - <b>Peanut</b></li> <li>• C041 - <b>Capuccino</b></li> </ul>	<ul style="list-style-type: none"> <li>• S046 - <b>Sesame</b></li> <li>• PA045 - <b>White pepper</b></li> <li>• A056 - <b>Antracit</b></li> <li>• V043 - <b>Vanilla</b></li> <li>• A044 - <b>Anise</b></li> <li>• CC047 - <b>Cream Coffee</b></li> </ul>
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<b>Shelf life in packaging:</b>	<b>48 months</b> from the date of manufacture, subject to compliance with packaging and storage conditions; depending on storage conditions, product should be mixed before use.		
<b>Packaging:</b>	25 kg net capacity plastic containers.		

- Compatibility:** KTE8320S series product should not be mixed with products other than those recommended for tinting by the manufacturer.
- Storage:** In closed, dry, covered, ventilated spaces, protected against weather and solar radiation, away from fire sources, at temperatures between 5 - 25°C.
- Shipping:** The products are shipped by covered means of transport according to the regulations in force.
- Certification:** The KTE8320S series products have performances declared according to DoP (declaration of performance) no. 2/2022 based on the harmonized technical specification: SR EN 15824:2017 and the CE mark is applied to the product packaging.

### TECHNICAL QUALITY CHARACTERISTICS

Table no.1

**Product technical data:**

Item No.	Characteristic value	MU	Characteristic value	Method of analysis
<b>a) Liquid product characteristics</b>				
1.	Appearance	-	white, viscous paste	visual
2.	Non-volatile substance content, 0.5g/50 cm <sup>2</sup> , 105 °C, 10 min.	%	83 ± 1	SR EN ISO 3251:2019
3.	pH	-	7.5 - 8.5	internal method
4.	Density, 23 °C	g/ml	1.95 ± 0.1	SR EN ISO 2811-1:2016
<b>b) Film characteristics</b>				
1.	Appearance*	-	decorative, structured	visual
2.	Drying time to 1.5 mm thick dry coat: -dry to touch, max. -dry to handle, max.	hours	2 24	ASTMD 1640M-14 (2018)
3.	Liquid resistance (48h immersion): -water, 3% acid solution, 3% alkaline solution, 40% saline solution, ethyl alcohol, acetone	-	good	SR EN ISO 2812-2:2019 SR EN ISO 2812-1:2018

\*Since natural raw materials are used in the composition of the plasters, plasters manufactured in bright shades may contain a relatively small percentage of different coloured grains.

**Specific consumption:**

- 2-2.5 kg/m<sup>2</sup>, for KTE8320S-10
  - 2.5-4.0 kg/m<sup>2</sup>, for KTE8320S-15 si KTE8320S-25
- Practical consumption is of 1.2 – 1.5 x theoretical consumption, according to application conditions (surface geometry, application method, environmental conditions).

**Maximum application thickness:**

- KTE8320S-10: 2mm
- KTE8320S-15+KTE8320S-25: 2.5-3mm

## Application instructions

**Surface preparation:**

The application of the product on the surface should be done only after proper preparation, as this step has a determining influence on the quality of the coating and its durability.

**Recommended substrates:**

Surfaces must comply with current standards, be dry, smooth, flat, free of dust or other impurities. Surface temperature must not fall below the minimum recommended temperature nor exceed the maximum recommended temperature. Before applying the decorative product, perform any repair work, subject to the drying and curing time. Otherwise, the properties of the final finish can be compromised and the durability of the system decreases.

Any crack left unrepaired can trigger the coating to peel off the substrate as the substrate is exposed to thermal variations (frost-thaw).

Product should not be applied on lacquer coatings, i.e. oil, alkyd paints, synthetics or poor quality paints. Completely remove lime or clay films and prime the surface. In case of poor quality paints, apply 1-2 coats of primer to strengthen the paint coat.

**New mineral surfaces, plasters and concrete:**

- cement-based, **newly-applied** cement-lime plasters or concrete structures can be finished after sufficient drying time, usually after 2 weeks, at approx. 20°C and 65% relative humidity. In case of unfavorable weather conditions, the drying time will be extended
- plaster coats should be allowed to dry and cure for at least 7 days
- once the repaired area is completely dry, proceed to smoothing; larger sand particles, visible on the plaster surface, should be removed as they will detach over time together with the finish, by touching; remove the resulting dust
- plasters that are found to be unsuitable are removed completely, up to the masonry, and the required repair works are executed
- existing cracks are repaired with quick setting cement paste
- during the entire period of repair, the surface temperature should be at least 10-30°C
- new concrete is strongly alkaline and chemically reactive; it requires a minimum of 28 days to harden and dry before plastering; if the decorative finish is applied before this period, the risk of cracking and efflorescence increases. If the concrete has whitish surfaces, it means that efflorescence is present and it is necessary to use G7101 Silicone Tiefgrund as a first coat.

**Thermal system:**

The final coat of thermosystem adhesive cures in a minimum of 7 days after application.

**Matte dispersion paint coated surfaces:**

- old, non-sticky paints are completely removed
- clay-based paints are completely removed
- areas affected by fungi or mold are impregnated and thoroughly cleaned with mold killing solution, after which they dry completely
- possible repairs should be done with cement paste or suitable sealing materials, dry completely and then remove the dust resulting from sanding

**Surface priming before product application:**

- priming is done with G8104 sand primer, applied in a single coat, diluted maximum 10% with clean, cold water (10-30°C), only after the cleaned, repaired or replastered surfaces have dried completely
- newly plastered and repaired areas should be given additional priming due to the higher degree of absorption
- once the primed surface has dried completely, you can apply the product

**Product preparation and application method:**

Condition the product at room temperature at least 24 hours before application. The product is well homogenized before use, applied undiluted or diluted with drinking water according to the ratios established by the manufacturer (max. 2% clean water at high temperatures). Stirring should be done at low rotation speed, using a mechanical mixer (with a stirring rod). Product should not be mixed with other plasters, including similar ones, to avoid the risk of compatibility problems. Product tinting can only be done with the manufacturer's recommended tinting pastes, or based on prior compatibility tests.

Once the product has been conditioned at a temperature of 10-30°C and well homogenized, apply the plaster undiluted or diluted 2%, in a uniform coat, according to particle size, using a stainless steel trowel.

Structure / shape with plastic hawk in order to obtain a uniform appearance. Use the same tool on the entire applied surface.

A sufficient number of applicators are required to apply the material evenly, wet-on-wet, without interruption, in a single application, in order to avoid unwanted stains and stripes on the finished surface.

In order to avoid colour variations over large areas, we recommend the use of tinting bases from the same production batch and tinting on the same machine; it is recommended to check the colour uniformity of the entire product batch (each bucket) in order to detect possible dosing errors. Before beginning the work, apply on a small area of the actual substrate and check the colour after drying.

Colour differences (spots) may occur due to uneven absorption of the substrate or differences in flatness, as well as different degrees of exposure to weathering and sunlight.

**Warning!**

For continuation of work, it is recommended to use tinted product from the same batch on the same tinting equipment; if this is not possible, you should mix tinted products from different batches.

**Working with unskilled personnel, improper surface preparation, use of inappropriate application tools or application under conditions other than those recommended shall not render the manufacturer liable.**

**Application conditions for exterior use:**

- optimal range for application: 10-30°C (ambient temperature should not fall below 10°C in spring and autumn, and should not exceed 30°C in summer)
- environment and surface temperature: 10-30°C
- relative humidity: max. 65%
- product temperature: 10-30°C

**Beware of the overnight frost danger!**

Surface temperature must not fall below the minimum recommended temperature nor exceed the maximum recommended temperature. Avoid working at very high temperatures; it is advisable to apply the product on the facade during the day when the surface is not exposed to direct sunlight.

The product should not be applied below 10°C or on wet surfaces, during strong winds, in high humidity conditions (fog, snow or other meteorological conditions), in areas exposed to bad weather and water leaks or in direct sunlight.

Do not apply to horizontal surfaces on which rain falls perpendicularly (roofs, sills etc.). During application and drying, protect the applied surface from rain with scaffolding tarpaulins at least 3 days after application. Increased air humidity and low temperatures can significantly extend the shaping and drying time, causing irregular changes in shade (blotchy appearance).

**Note: Wash the application tools with water immediately after use.**

**Application with unsuitable tools may result in inappropriate appearances and thicknesses compared to those specified in this technical data sheet.**

**Failure to comply with these conditions may lead to defects or total damage to the protection.**

**Security Data:**

See the product safety data sheet.

**Occupational safety:**

As a water-thinnable product, it does not pose particular occupational safety problems. Avoid contact with skin, eyes and mucous membranes. In case of skin contact, wash with warm water and soap. In case of eye contact, wash thoroughly with water and then see a specialist.

**Note:**

All these data are of a general nature regarding the performance and use of the product, therefore we recommend testing the product under the conditions of the beneficiary's own application technology. For further clarification, please contact the manufacturer.