

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

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**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. The product is recommended as the final finishing layer of the facade within the thermal insulation system for external walls ETICS.												
<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>• resistance to mold</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 border="0"> <tr> <td>• N036 - <b>Walnut</b></td> <td>• S046 - <b>Sesame</b></td> </tr> <tr> <td>• G062 - <b>Graphite</b></td> <td>• PA045 - <b>White pepper</b></td> </tr> <tr> <td>• G061 - <b>Granit</b></td> <td>• A056 - <b>Antracit</b></td> </tr> <tr> <td>• A039 - <b>Pineapple</b></td> <td>• GQ063 - <b>Gray Quartz</b></td> </tr> <tr> <td>• A040 - <b>Peanut</b></td> <td>• A044 - <b>Anise</b></td> </tr> <tr> <td>• C041 - <b>Capuccino</b></td> <td>• CC047 - <b>Cream Coffee</b></td> </tr> </table>	• N036 - <b>Walnut</b>	• S046 - <b>Sesame</b>	• G062 - <b>Graphite</b>	• PA045 - <b>White pepper</b>	• G061 - <b>Granit</b>	• A056 - <b>Antracit</b>	• A039 - <b>Pineapple</b>	• GQ063 - <b>Gray Quartz</b>	• A040 - <b>Peanut</b>	• A044 - <b>Anise</b>	• C041 - <b>Capuccino</b>	• CC047 - <b>Cream Coffee</b>
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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.												

**Packaging:**

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 2811-1:2023
<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 (2022)
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

In order to obtain the optimal performance of the product, it is necessary to strictly observe all the application instructions, conditions and precautions presented below. It is recommended to apply the coating system on a test surface (reference) according to SR EN 1062-1.

### **Preparing the product for application:**

The product is conditioned at room temperature at least 24 hours before application, it is homogenized well before use, it is applied undiluted or diluted with drinking water in the proportions established by the manufacturer (max. 2% clean water in high temperature conditions). We recommend that the stirring operation be done at low speed, using a mechanical mixer (with a stirrer-mixer type rod).

It is forbidden to mix the product with other even similar plasters, to avoid the risk of compatibility problems. The tinting of the product can only be done with the coloring pastes recommended by the manufacturer or based on prior compatibility tests.

### **Surface preparation:**

The preparation of the support is carried out in accordance with SR EN 1062-1. The applied surface must correspond to the norms in force, be dry, flat, without dust or other impurities, which could affect the adhesion of the product to the support.

Before applying the decorative product, all repair work will be carried out, respecting their drying and curing time. Otherwise, the properties of the final finish may be compromised and the durability of the system decreases. Any unrepaired crack can be the starting point for detaching the coating from the support, as the surface is exposed to thermal variations (freeze-thaw).

New supports exposed to high humidity due to capillarity cannot be covered without repairs or preventive treatments. We recommend priming with 1-2 layers of Silicon Tiefgrund G7101.

The coating for masonry and concrete is generally carried out in three stages, which depend on the condition of the support, namely: preparation operations, priming operations and the realization of the coating.

### **Old surfaces:**

- previous coatings that show detachment or inadequate adhesion are repaired, leveled with a putty, then primed
- the areas repaired by re-watering are left to dry for at least 3 days, sanded, dusted and primed
- the product is not applied on layers of lacquer, respectively oil, alkyd paints, synthetic materials or low quality paints
- the films of lime or humus are completely removed and the entire surface is primed priming is done with sand primer G8104.

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

- cement-based plasters, freshly applied cement-lime or concrete structures can be finished after keeping a sufficient drying time, usually after 2 weeks, at approx. 20°C and 65% relative air humidity. In case of unfavorable weather conditions, the drying time will be extended
- the glazes must be left to dry and mature for at least 7 days
- after complete drying of the repaired area, it is necessary to level the surface; larger grains of sand, evident on the surface of the plaster, must be removed because they will come off with time, at the same time as the finish, by touch; the resulting dust is removed
- the plasters that prove to be inadequate by hammering, are completely removed up to the masonry and the repair work is carried out
- existing cracks are repaired with fast-hardening cement paste
- during the entire period of waterproofing or repairing the problem areas, the temperature of the support must be between 10-30°C
- fresh concrete is strongly alkaline and chemically reactive; it requires at least 28 days for hardening and drying before applying the plaster; if the decorative finish is performed before this period, the risk of cracking and the appearance of efflorescence increases.

If the concrete has bleached surfaces, it means that efflorescence is present and it is necessary to use Silicon Tiefgrund G7101 as a first layer.

**Thermosystem:**

The decorative plaster is applied as the final layer of the thermosystem. The final layer of putty mass for the thermosystem matures in at least 7 days after its installation.

**Priming the surfaces before applying the product:**

- priming is done with sand primer G8104 by applying in a single layer, diluted maximum 10% with cold, clean water (15-25 °C), only after the cleaned, repaired or resealed surfaces have completely dried
- newly plastered and repaired areas must be additionally primed due previous coatings that show detachment or inadequate adhesion are repaired, leveled with a putty, then primed to the higher degree of absorption
- only after complete drying of the primed surface, the product can be applied.

**External application conditions:**

- the temperature of the environment and the support - the ideal range for application is 10 - 30 °C (the temperature of the environment must not fall below 10 °C in spring and autumn, and in summer it must not exceed 30 °C and the temperature differences on the same wall do not exceed 5 - 6 °C)
- relative humidity of the environment: max. 65% (the products are not applied on wet surfaces and in conditions of high humidity (fog, snow or other weather phenomena), in areas exposed to bad weather and water leaks or in direct sunlight)
- product temperature: 15-30 °C
- the substrate temperature is recommended to be at least 3 °C above the dew point temperature to avoid condensation of moisture on the substrate, which can cause a decrease in adhesion, flaking and exfoliation.

Do not apply on horizontal surfaces on which precipitation falls perpendicularly (roof, flashings, etc.)

**Beware of the danger of freezing overnight!** It is not recommended to apply if there are large temperature differences between day and night, especially in spring and autumn, when positive temperatures (10-20 °C) can be recorded during the day, and temperatures can even drop below 0 at night. °C, phenomenon that leads to the appearance of defects (cracks, exfoliation).

Avoid working at temperatures higher than 35 °C in the air. Above this temperature, forced drying phenomena may occur, which will decrease the final quality of the film.

It is recommended to apply the product on the facade during the day, when the surface is not exposed to direct sunlight. During application and drying, we recommend protecting the applied surface from rain with the help of scaffolding tarps for at least 3 days after application. An increased air humidity and low temperatures can considerably extend the modeling and drying time, causing irregular changes in shade (stained appearance).

**Note:**

The application tools are washed with water, immediately after use.

**Method of application:**

After conditioning the product at a temperature of 15-30 °C and a good homogenization, the plaster is applied undiluted or diluted 2%, in a uniform layer, to the thickness of the granules, with the help of a stainless steel trowel.

It is structured / modeled with plastic material slush, in order to obtain a uniform appearance. It is recommended to use the same tool on the entire applied surface.

In order to avoid the appearance of unsightly spots and stripes on the finished surface, it is also necessary to have a sufficient number of applicators to apply the material uniformly, wet on wet, without interruption, in a single pass.

**Working with non-specialized personnel, inadequate preparation of the surface, use of inappropriate application tools or application under conditions other than those recommended do not imply the manufacturer's responsibility.**

**The application tools are washed with water, immediately after use.**

**Application with inappropriate tools can lead to obtaining inappropriate aspects and thicknesses compared to those declared in this technical sheet.**

