

TEHNICAL DATA SHEET

Product description

Description:	G8104 is a white plaster primer based on synthetic resin, filler and quartz.
Use:	It is used for priming exterior and interior surfaces, as a base coat before the application of KTE8300 series decorative plasters, respectively of the Decoral range plasters, V8712 series relief effect systems. G8104 plaster primer is coloured with KÖBER tinting products and KOLOR EXPLORER computerised tinting system.
Main characteristic elements:	<ul style="list-style-type: none"> improves the adhesion of the plaster to the underlying coat and contributes to increasing the system's resistance easy to apply quick drying at ambient temperature environmentally friendly
Compatibility	G8104 primers should not be mixed with products other than those recommended by the manufacturer.
Shelf life in packaging:	<ul style="list-style-type: none"> 48 months from the date of manufacture, subject to compliance with packaging and storage provisions.
Packaging:	Packed in 4L, 8kg and 25kg capacity PVC buckets.
Storage:	in closed, dry, covered, ventilated spaces, protected against weather and solar radiation, away from fire sources, at temperatures between 5 - 30°C.
Shipping:	The products are shipped by covered means of transport according to the regulations in force.

TECHNICAL QUALITY CHARACTERISTICS

Table no.1

Item No.	Characteristic name	MU	Characteristic value	Test method
a) Product characteristics				
1	Appearance	-	viscous suspension	visual
2	Non-volatile substance content, 0.5g/50cm ² , 125°C, 1h	%	71.0 ± 2	SR EN ISO 3251:2019
3	Density, 23 °C	g/ml	1.65 ± 0.05	SR EN ISO 2811-1:2023
4	VOC, max.	g/l	30	SR EN ISO 11890-1:2007
b) Film characteristics				
1	Appearance	-	matte, with quartz particles	visual
2	Drying time at 23±2°C, 50± 2% relative humidity: -Dry to handle- (Type D)	min.	120	ASTM D 1640M-14 (2022)

Application details: G8104 is applied undiluted or diluted maximum 10% with clean cold water (15-25°C).

<u>Methods of application:</u>	<ul style="list-style-type: none"> • brushing • rolling
<u>Re-coating period:</u>	<ul style="list-style-type: none"> • min. 2 hours
<u>Specific consumption:</u>	<ul style="list-style-type: none"> • approx. 8 m²/ l / coat, according to the surface porosity and degree of preparation <p>Practical consumption is of 1.2 – 1.5 x theoretical consumption, according to application conditions (surface geometry, application method, environmental conditions).</p>
<u>Drying time:</u>	<p>Lower temperatures and increased air humidity prolong the drying time. The drying times depend on the temperature and the film thickness, being extended by the decrease in temperature and the increase in the film thickness.</p> <p>Poor air circulation and excessive humidity negatively influence the drying process and lead to deterioration of the film's characteristics. In the cold season (spring / autumn) or in conditions of high humidity, a longer drying time will be kept and, in case of inclement weather, it is mandatory to protect the surface with tarpaulins.</p>

Application instructions

<u>Preparation of external surfaces:</u>	<p>It is necessary to strictly observe the recommendations below:</p>
<u>Preparing the support:</u>	<p>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.</p> <p>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).</p> <p>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.</p> <p>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.</p> <p>It is recommended to apply the coating system on a test surface (reference surface) for an initial evaluation.</p>
<u>Old surfaces:</u>	<ul style="list-style-type: none"> • 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, they are sanded, they must be dusted off 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.
<u>New mineral surfaces, plasters and concrete:</u>	<ul style="list-style-type: none"> • 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 inadequate by hammering, are completely removed up to the masonry and the repair work is carried out; the complete drying, in depth, of the repair works is awaited • 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.

**Thermosyste
ms:**

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.

**Preparation of
interior
surfaces:**

It is necessary to strictly follow the listed recommendations. 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 the coating to detach from the support.

New surfaces:

- in order to achieve a perfectly smooth surface, apply the putty mass, respectively the finishing putty, which are later sanded using circular movements with abrasive paper; for large surfaces, sanding devices are used
- freshly finished surfaces must be dusted
- if repairs are needed, for cracks with a maximum depth of 2 mm, it is recommended to close them with STUC C4000 masonry putty
- for larger thicknesses, it is recommended to successively apply several layers of putty, with intermediate sanding and dust removal
- plasters that, by hammering, prove to be inadequate are completely removed, up to the masonry
- larger grains of sand, evident on the surface of the plaster, must be removed because they will come off with time, together with the finish, by touch
- during the entire period of resealing or repairing the problem areas, the temperature of the support must be higher than 5°C, ideally 10°C
- leave the fresh plaster for at least 24 hours to dry completely before applying the finishing layer

**Repainted
surfaces:**

- check the condition of the plaster by hammering
- in the parts that come off, the plaster is redone and the damaged edges are repaired
- old, non-adherent paints are completely removed
- paints based on glue (huma) are completely removed
- the areas attacked by fungi or mold are impregnated and cleaned very well with an anti-mold solution, after which they are completely dried.

**Surface
priming:**

- by priming, the absorbency of the support is evened out, so that the last finishing layer appears perfectly homogeneous and without spots, and the adhesion between the applied product and the support is ensured
- priming is done only after the clean, repaired or resealed surfaces have completely dried
- freshly plastered and repaired areas must be additionally primed, due to the greater degree of absorption they present
- only after drying the primed surface can the final product be applied.

**Application
conditions for
outdoor
operation:**

- 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 temperature of the support is recommended to be at least 3°C above the dew point temperature to avoid moisture condensation on the support, which can cause a decrease in adhesion, peeling and exfoliation
- do not apply on horizontal surfaces on which precipitation falls perpendicularly (roof, flashings, etc.)
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).

Notes:

Beware of the danger of freezing overnight!
It is recommended to apply decorative plasters in max. 24-48 hours after applying primer G8104!!

Application conditions for indoor operation:

- relative humidity of the environment: max. 70%
- temperature of the environment and the support: 10-30 °C
- ventilation of the work space is recommended

Remark:

Failure to comply with these conditions may lead to the appearance of defects or total protection compromise.

Application instructions:

G8104 is applied by brushing or rolling on suitably prepared surfaces. Apply a coat of G8104 plaster primer undiluted or diluted maximum 10% with cold clean water (15-25 °C).

Remarks:

Wash the application tools with water immediately after use.
Do not use below +5 °C.

Security Data:

See the product safety data sheet.

Occupational safety:

All handling, shipping, storage and use operations must be carried out in full compliance with fire prevention, occupational health and safety and hygiene regulations.

Environmental protection measures:

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 rinse with warm water and soap. In case of eye contact, rinse 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.