

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

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Plaster and Façade Systems

P258f.de

Product Data Sheet

2021-02



Sockel Gigamit

Lightweight plinth reinforcement basecoat

Product description

High-yield, polymer modified lime cement lightweight plinth reinforcement basecoat with mineral lightweight aggregate. As a system plinth render, Sockel Gigamit has the function of a mineral bonding plaster primer on a diverse range of substrates, the compressive strength category of a lightweight plaster and the properties for a polymer-modified reinforcement plaster with embedded mesh reinforcement.

As a system basecoat, Sockel Gigamit fulfils the necessary adhesion values directly on existing waterproofing of buildings and suitable plinth insulation panels, and it certifiably features the same properties as a lightweight plinth basecoat with additional reinforcement plaster with full-surface embedded mesh. A friction bond between Sockel Gigamit and the mesh reinforcement is achieved by the polymer modification.

Composition

Cement, hydrated lime, graded limestone or quartz grains, lightweight aggregates, water-retaining and water-repellent additives.

Storage

Store the bags on wooden pallets in a dry environment. Can be stored for 9 months.

Quality

In compliance with EN 998-1, the plaster is subject to initial type testing and continuous factory production control and bears the CE marking.

Properties and added value

- General-purpose rendering / plastering mortar GP acc. to EN 998-1
- Polymer modified lime cement acc. to DIN 13914
- Compressive strength category CS III acc. to EN 998-1
- Direct application on mineral and bituminous waterproofing of buildings and laid polymer bitumen welded sheeting
- Application directly on concrete plinth insulation panels and XPS-R insulation boards
- For interior and exterior application
- With mineral lightweight aggregates
- Water-repellent
- For machine or hand application

Field of application

As a system plinth render directly on the mineral and bituminous waterproofing of buildings as well as a polymer bitumen welded sheeting without additional, mineral bonding plaster primer. As a lightweight plinth basecoat on all types of masonry and concrete in the plinth area.

By full surface embedding of Knauf reinforcing mesh 4x4 mm or 5x5 mm in Sockel Gigamit, a reinforcement plaster with full surface embedded mesh on the basecoat can be avoided.

As a system plinth render

- As a mineral bonding plaster primer on mineral and bituminous waterproofing of buildings and laid polymer bitumen welded sheeting
- On all masonry substrates and concrete in the plinth area
- As a reinforcement mortar and basecoat with full surface reinforcement mesh layer
- On all masonry substrates and concrete in exteriors
- As a sponge-finished top coat

As a basecoat

- For thin layer mineral and paste-like finish plasters
- Under tiles

Application

Substrate and pretreatment

Substrate	Pretreatment
Small format brick masonry, random rubble walling, mixed brickwork	Without
Masonry made of brick, pumice and lightweight concrete, lime sandstone and aerated concrete in the plinth area	On highly absorbent substrates or during hot summer weather, apply plaster as two layers fresh in fresh
Absorbent concrete	Without
Bituminous thick coatings (PMBC), mineral sealing slurries (MDS), laid polymer bitumen welded sheeting	Without
Plinth boards and XPS-R insulation panels	Without

Preparation

Check the substrate for compliance with VOB part C, DIN 18350, chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 section 3. Clean the substrate of dust and remove loose parts ensuring that the surface is smooth. Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebe- und Abdekarbeiten für Maler- und Stuckateurarbeiten" issued by the Bundesverband Ausbau und Fassade. Protect weather-exposed surfaces from precipitation and direct sunlight. Substrate pretreatment in acc. to the "Substrate / Pre-treatment" table. All substrates must be stable, dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion.

Machines / equipment

PFT mixing pump G 4

- Stator D6-3
- Rotor D6-3
- Mortar hoses Ø 25 mm
- Wet mortar pumping distance up to 40 m

Mixing

Mixing by hand

Mix the content of one bag with 9 litres of clean water and without further additions until an application-ready lump-free consistence is achieved.

Mixing by machine

For machine application using mixing pumps, e.g. PFT G4, set the desired consistence by adding water.

Product application

Full surface embedded mesh

Apply Sockel Gigamit with a plaster thickness of at least 10 mm (interior application) or at least 15 mm (exterior application) (comply with the minimum requirements acc. to DIN 13914-1:2016, table 7). Rule Sockel Gigamit level and embed mesh near the surface across the entire area. The reinforcement mesh should be fully covered with Sockel Gigamit.

As an alternative, apply about 2/3 of the plaster thickness, embed reinforcement on full area and apply the remaining plaster thickness until full plaster thickness is achieved. The reinforcement mesh must be located in the upper third. Overlay the mesh by at least 100 mm. Apply an additional diagonal reinforcement on the corners of building openings.

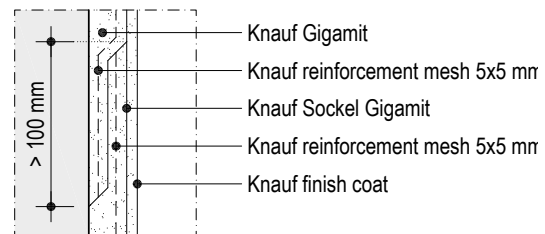
Rule the surface flat with a H-straight edge. Remove any mortar burrs present (on corners and edges) using a plaster plane. Ruling the surface flat eliminates the need for planing to remove sinter layers.

After the Gigamit has been applied, the Gigamit-Sockel must be applied flush with the plaster on the Gigamit that is tapered by approx. 3 to 5 mm in plaster thickness and at least 10 cm in height, and the reinforcement mesh of the Gigamit-Sockel must be overlapped by at least 100 mm with the reinforcement mesh of the Gigamit.

Alternatively, transition free fresh-in-fresh plastering can be continued with Sockel Gigamit after the application of Gigamit. Reinforcement mesh overlap at least 100 mm.

Transition of Gigamit – Sockel Gigamit

Detail A



A full surface mesh layer is unnecessary in case of interiors with homogeneous concrete and masonry substrates and a uniform plaster thickness. In case of changing substrates, different plaster thicknesses on the surface and expected stresses from the substrate, a partial surface reinforcement should be carried out directly in Sockel Gigamit.

Note

With surface condensation of the thermal bridge insulation, particularly with damp and cold weather in autumn/spring, allow the surfaces of the insulation panels to dry or apply a skim coat of Sockel Gigamit (mortar consistence not too thin) at a thickness of approx. 2 mm and rule to a scrape skim coat. Proceed wet in moist or on the following day with the next plaster layer.

Plaster thickness

On absorbent substrates, apply a maximum thickness of 30 mm per layer. On non-absorbent substrates such as XPS-R insulation panels, apply a maximum of 20 mm per layer. Apply several layers for greater plaster thicknesses.

On a plaster base

On a professionally applied plaster base, apply about a 10 mm thick coat of Sockel Gigamit and press and level it into the plaster base. Roughen the surface with a brush. After setting, apply another coating of about 10 to 15 mm, rule flat and embed the mesh reinforcement in the fresh basecoat.

Substrate for tiling

Suitable as substrate for tiles and floor slabs. Ensure a plaster thickness of at least 10 mm. The surface texture must be matched to the requirements of the respective sealing type. The suitability as a base for the application of tiles without additional bonded waterproofing is improved, if the plaster surface is applied as a tight coat with a straight edge/feather edge or scratched. Allow to dry and set fully before a tile covering is applied. As a quick setting tile adhesive, use workable thin-bed mortar (e.g. Knauf Flex-Fliesenkleber tile adhesive).

Plinth application

After drying out, all rendered surfaces shall be waterproofed/protected against moisture ingress using Sockel-Dicht in acc. to DIN 18533-3, starting from the basement wall waterproof barrier up to approx. 50 mm above ground level. For this purpose, apply a double-layer of Sockel-Dicht of at least 2.5 mm (dry layer thickness at least 2 mm).

To protect against damage on-site after drying, place a protective layer with slip membrane (e.g. fleece laminated dimpled sheet) in front of it.

Application temperature / climate

Do not apply with air, component and/or substrate temperatures below +5 °C or ensure that the temperature does not fall below this value until the plaster has hardened sufficiently. Furthermore, the temperature should not exceed 30 °C during application.

In order to prevent rapid dehumidification of the fresh plaster by the exposure to direct sunshine (high surface temperatures), and/or strong wind (danger of cracks reduction in strength) suitable protection measures / treatment (e.g. protective nets, keeping moist) are required.

Cleaning

Clean the machines and tools with water immediately after use.

<p>Notes</p>	<p>Plaster must be applied according to EN 13914, DIN 18550 and DIN 18350, VOB part C as well as the generally recognized building engineering rules and valid guidelines.</p> <p>With previous application of gypsum plasters or plasters containing gypsum, it is essential that the plastering machine is thoroughly cleaned (wet zone, plaster spiral, rotor, dry zone, gear wheel, hoses; In case of dry material feed: transfer hood, supply hose, pressure vessel, injection hood, feed manifold).</p> <p>Should the basecoat remain exposed during the winter, we recommend application of Grundol primer before the finishing plaster is applied in spring.</p> <p>Heating in rooms should only be put into operation in stages. Rapid dehumidification, e.g. using dehumidifiers should be avoided.</p>
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Coatings and linings

Coatings

Finishing plasters

After a drying time of at least 1 day per mm plaster thickness, all thin layer mineral paste-like finishing coats can be applied which are suitable for the plinth area. Undertake substrate pretreatment to suit the weather conditions and finishing plaster.

<p>Notes</p>	<p>When used as a sponged final coat, 2 layers of Sockel Gigamit are necessary. For this purpose, apply the first layer in grain thickness on the following day, allowing to dry and then applying the 2nd layer and sponging it immediately without using water.</p> <p>In case of application as a final coat, apply at least a double coat of paint.</p>
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Technical data

Description	Standard	Unit	Sockel Gigamit
Reaction to fire	EN 1501-1	Class	A1
Graining	–	mm	1.0
Compressive strength	EN 1015-11	Category	CS III
Bond strength	EN 1015-12	N/mm ²	≥ 0.08
Failure pattern			A, B or C
Capillary water absorption	EN 1015-18	Category	W 2
Water vapour diffusion resistance μ	EN 1015-19		≤ 25
Thermal conductivity $\lambda_{10, \text{dry, mat}}$ at P = 50 %	EN 1745	W/(m·K)	≤ 0.33
P = 90 %		W/(m·K)	≤ 0.36

The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.

Material requirement and efficiency

Coat thickness mm	Consumption approx. kg/m ²	Yield approx.	
		m ² /bag	m ² /ton
10.0	13.0	2.0	80.0
15.0	19.0	1.3	53.0

The exact consumption can only be determined with a test application on the individual object.

Product range

Description	Graining mm	Application kg/bag	Packaging unit Bags/pallet	Material number	EAN
Sockel Gigamit	1.0	25	42	00699580	4003950138867



Observe safety data sheet!

For safety data sheets and CE marking see
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