

### Jetgips® Diamant

Technical Data Sheet 12/2023



## Jetgips® Diamant

Machine applied gypsum plaster with increased surface hardness

### Product Description

Pre-mixed gypsum dry plaster mortar with an enhanced surface hardness and compression strength for smoothed interior surfaces.

### Storage

Bags should be kept in a dry environment in their original packages on pallets

horizontally. Pallets should be prevented from direct contact with water and should not be exposed to direct sunlight. Seal damaged and opened bags should not be used. The product can be stored for 6 months.

### Standards referred to

TS EN 13279-1 B7/50/6: Plaster mortar with an enhanced surface hardness and compression strength

### Fields of Application

Plaster for creation of smoothed, freely-structured or levelled surfaces in areas subjected to particular high demands on interior walls and ceilings.

As a single-layer plaster for all kinds of masonry, concrete as well as stable plaster-able substrates. Cannot be used on ceilings

### Properties

- Mineral-based
- High surface hardness and compression strength
- Abrasion-resistant and nail-proof
- Air flow permeability
- A1 class material (non combustible)
- Contributes to acquire quality air for comfort and health
- Easy and fast application
- Extended working time
- Smooth surfaces for fine finishing

### Application

#### Substrate and pretreatment

- Clean the substrate of dust and loose parts and remove, ensure that the surface is smooth. 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.
- Suitable primer depending on the substrate should be applied before application.
- Ensure that the drying time for the primer coats is observed before continuing work.
- With a material change in the plaster substrate, with insulation boards, etc., reinforcement mesh should be used.

#### Application

- Clean the surface and repair if necessary.
- The surface should not be over dry or wet before the application.
- Use Knauf Betokontakt Primer on exposed concretes.
- Use aligning (ano) strips during plaster application for a leveled surface.
- Spray Jetgips Base® from top to bottom between the ano strips with a distance of 10-15 cm and strike-off. Application thickness should be minimum 10 mm and maximum 25 mm on the wall and minimum 10 mm and maximum 15 mm on the ceiling. Apply the product as levels for thicker applications.
- Use Knauf Gypsum Corner Profiles for external corners and use Knauf Plaster Mesh for different material transitions.
- Strike off with a steel trowel and/or a hand straight edge for the second time before the surface is hardened completely.
- Use PFT Plaster Machines for the best performance.

#### Application tools

Trowel, steel trowel, spatula, PFT® plaster machines, aligning strips, corner profile

#### Application temperature

Do not apply material at air and/or substrate temperatures below +5°C and above +30°C. Protect freshly applied mortar and applied plaster from frost until fully dry.

#### Working time (on the Applied Surface)

About 180 minutes depending on the plaster substrate.

### Safety Instructions

- Wash hands with plenty of water after handling.
- Use protective gloves / protective clothing / eye protection / face protection.
- In case of contact with eyes: Rinse your eyes cautiously with water for several minutes. If there is a lens remove it and continue to rinse.
- If eye irritation persists: Get medical advice / attention.

### Technical Data\*

Description	Unit	Value
Flexural strength	N / mm <sup>2</sup>	≥ 2.00
Compressive strength	N / mm <sup>2</sup>	≥ 6.00
Surface hardness	N / mm <sup>2</sup>	≥ 12
Water vapour diffusion resistance	μ	10 (dry) 6 (wet)
Thermal conductivity	W/(m·K)	0.47
Bond strength	N / mm <sup>2</sup>	≥ 0.1
Dry density	kg / m <sup>3</sup>	approx. 1250
Reaction to fire	-	A1
Working Time (on the Applied Surface)	min	180
Amount of mixing water (for 10 kg dry plaster)	L	4 - 5
Application temperature	°C	5 - 30
Shelf life	month	6

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

### Material Consumption\*\*

Product	Unit	Consumption
Jetgips® Diamant (for 10 mm thickness)	kg/m <sup>2</sup>	approx. 10-11

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

### Packaging

Description	Weight (kg)	Packaging (pcs/pallet)	Material Number
Jetgips® Diamant	35	45	625941

### System Performance Values

Performance values as sound insulation, fire resistance etc. may differ acc. to the drywall system to be applied. Please check the performance values of the drywall systems;

[Knauf Technical Website](#)  
[Document Center](#)

### Application

It is suggested to follow the technical details which given on Knauf system brochures for application.