MultiGips

Technical data sheet

Organic bonding agent MultiGips Betonkontakt

QUICK REFERENCE DATA

Construction product	**Substrate pre-treatment** For gypsum plasters on concrete **Material basis** Filled plastic emulsion (bonding agent) **Application** On dense and/or non-absorbent plaster substrates **Characteristics** Improves plaster adhesion/roughness **Application** Manual, mechanical application **Plaster system** Gypsum interior plaster (EN 13914-2) **Consumption** approx. 0.25 – 0.30 kg/m² (on concrete) **Efficiency** approx. 66 – 80 m²/20 kg bucket (on concrete)
Documentation	**EN** multigips.com
Order information	**Material number 745** 20 kg bucket (pallet with 24 buckets, 480 kg) **Material number 744** 5 kg bucket (pallet with 48 buckets, 270 kg)
Validity	Technical data sheet only valid in conjunction with the recognised rules of construction technology and the technical documentation of VG-ORTH GmbH & Co. KG.

MAIN FEATURES

Construction product

Organic bonding agent for gypsum interior plaster systems (EN 13914-2). Ready for use and pre-mixed using pigmented plastic emulsion and mineral additives (dry powder products).

Application

For improving adhesion of gypsum interior plaster on dense and/or non-absorbent concrete wall and ceiling surfaces, particularly smooth in situ concrete and pre-fabricated ceilings with added in situ concrete (filigree). Residual moisture should not be more than 3% by mass from the surface to a depth of 3 cm when used for concrete.

NOTE: Large concrete elements made from porous lightweight concrete normally have a dry density of < 2,000 kg/m^3. Those building elements normally take longer to dry than is practical for construction purposes. Gypsum dry mortars are not recommended in such cases - not even in a system including the bonding agent.

For improving the adhesion of gypsum interior plaster on other suitable standard plaster substrates, e.g. masonry made of dense and/or non-absorbent sand-lime bricks, masonry made of glazed or natural stone and burnt clinker bricks, panel units (gypsum panels, EPS/XPS rigid foam panels), hard polystyrene foam concrete blocks and lime-cement plaster.

For improving the adhesion of gypsum bonding compounds to dense and/or non-absorbent plaster substrates before the application of gypsum panels and composite panels (dry plaster).

On the plaster substrates specified above in a system with MultiGips mechanical, manual and thin coat plasters EN 13279-1, MultiGips CasoFill filler materials EN 13963 (thickness 2-4 mm) and MultiGips adhesive gypsum EN 14496.

Product benefits

A high-quality bonding agent that is ready for use.
Plastic in water emulsion with special grain.
Homogeneous film formation provides optimal roughness for smooth plaster substrates.
Red pigment for easy visual inspection.
Optimal processing characteristics (anti-drip).
Permeable.
Free from solvents and plasticisers, odourless.
Emissions tested: No risk to the air in the area.

TECHNICAL FEATURES

Emulsion	Watery
pH level	8 – 9 (at 20 °C)
Density	approx. 1.3 kg/l (at 20 °C)
Viscosity	Thick
Pigmentation	Red
Consumption	Approx. 0.25 – 0.30 kg/m² (on concrete)
Efficiency	Approx. 66 – 80 m²/20 kg bucket (on concrete)
Drying time	At least 24 hours
Working temperature	Building element and air temperature no less than +5 °C
Vapour barrier value	80 - 120 µ (dry)
VOC emissions	**$TVOC_{28}$** < 1.0 mg/m³ **$SVOC_{28}$** ⩽ 0.1 mg/m³ **$Carcinogen_{28}$ EU Cat. 1 and 2** ⩽ 0.001 mg/m³
VOC content	< 3 g/l VOC (EU limit: < 30 g/l)
Storage	Can be stored for approx. six months. Store closed in a cool location. Protect against frost, intense heat, sunlight, humidity and water. Packaging should be sealed airtight to prevent exposure to the air once opened and used without delay. Storage class: VCI 12 (non-flammable liquid). Do not use goods that have been in storage for longer than intended.

NOTE: The relevant technical figures for the construction product were calculated under laboratory conditions. Consumption, volume and time values may deviate from laboratory values under practical conditions.

CHARACTERISTICS

Technical

Bonding agent that forms a functional adhesive film even under difficult site conditions when building element and air temperatures are ≥ + 5 ° C and/or the environment is temporarily highly alkaline.

Visual/haptics

The emulsion is coloured red to help distinguish between the application surface and the coating.

Once the film is fully formed (> 24 h), the mineral additives are firmly embedded in the bonding agent.

Environmental

Fulfils the requirements for use in interiors according to the Federal Environmental Agency in the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety in the Federal Republic of Germany. Extremely low emission levels, even when combined with organic materials for substrate pre-treatment or emulsion paints.

PLANNING PRINCIPLES

General construction conditions

Construction product for application on dense and/or non-absorbent substrates to improve the properties of gypsum interior plasters that only achieve their main features after hardening/drying on the substrate. Therefore, bonding agents and gypsum interior plasters are subject to the same conditions as the inspection, preparation and pre-treatment of the substrate.

In general, substrates must be sound, dry, dimensionally stable and free of dust, grease and frost. Substrates which are unsuitable, too damp and/or frozen may result in damage.

The recommended minimum temperature from application until the bonding agent is completely dry must be above +5 ° C - even at night.

NOTE: The recommended maximum temperature for building elements to be plastered and interiors is +30 °C; the minimum temperature is +5 °C, including overnight.

Preparation

Testing and preparation in accordance with EN 13914-2.

Depending on requirements and/or the situation, seal up sensitive materials, fittings, building elements and pre-fabricated surfaces, pre-treat exposed metallic materials and fittings in the substrate to prevent corrosion, fill mortar joints and defects, sweep off dust to improve adhesion, remove adhesion-reducing residues, protruding grout and cement, fix cracks.

Substrate pre-treatment

Testing and pre-treatment in accordance with EN 13914-2.

When using concrete as a substrate for gypsum interior plaster, it must be checked in advance to ensure compliance with requirements. The defects/ impairments uncovered during the checks must be eliminated.

NOTE: Organic bonding agents do not have properties that can be used to rectify defects/impairments affecting concrete surfaces.

APPLICATION PRINCIPLES

General

Stir construction product well before removal, use undiluted and do not mix with foreign material and/or additives!

Transport and store the product so that it is protected against frost!

NOTE: Frost will permanently damage the emulsion. Do not use emulsion that has frozen and then thawed.

Application

Use a suitable paint roller, e.g. short pile lambswool roller, or a suitable mechanical process to fully cover the entire surface.

When using a machine, adjust the spray pressure so that the mineral additives do not bounce off.

Remove impurities/splashes immediately with water. Material that has already formed a film should be softened with warm water and then removed.

Clean tools with water immediately after use.

Drying

Bonding agents become functional through air drying (evaporation of the water content in the emulsion).

Drying will be complete after at least 24 hours with sufficient cross-ventilation and persistently uniform evaporation (20 °C / 65% relative humidity). Cool temperatures and higher humidity will extend the drying time. The bonding agent will not be sticky once it is completely dry.

To ensure that it dries completely, even in unfavourable conditions, e.g. high relative humidity and insufficient ventilation (as may be the case if construction takes place during the winter), additional measures may be necessary, e.g. condensation drying, to ensure continued uniform evaporation.

Further treatment Once completely dry, suitable as a functional bonding agent for the prompt application of gypsum interior plasters.

NOTE: We recommend starting plastering work without delay to avoid deposits of construction dust, which will reduce adhesion.

SAFETY AND DISPOSAL

Hazard Symbol None.

Hazard Statements **EUH 208** Contains 1,2-benzisothiazol-3(2H)-on.
May produce an allergic reaction.
EUH 210 Safety data sheet available on request.

Precautionary Statements None.

Disposal Recommendation Disposal according to official regulations.
European List of Waste 08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19.

Safety data sheet The information in the current safety data sheet at ce.multigips.de applies.

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Technical data sheet for construction product based on harmonised standard. No guarantee of being exhaustive or generally valid; legal claims against VG-ORTH GmbH & Co. KG cannot be based thereon. Only valid in conjunction with the recognized rules of construction technology, as published in the regulations of the professional associations and their professional bodies, as well as in conjunction with the technical documentation of VG-ORTH GmbH & Co. KG. Does not apply to other specified construction products/types in conjunction with their installation. Provides technical information for professional users to improve their understanding and ensure that the construction product is used and applied as intended. Does not substitute compliance with the established rules of construction technology and professional use and design under practical conditions by professional users. Warranted performance by the manufacturer for the powdered form of pre-mixed construction product at time of market introduction. No commitment to a legally binding guarantee of certain properties or suitability for a particular application. Performance characteristics of the applied construction product dependent on substrate inspection and pre-treatment, professional application and requirement-oriented drying / hardening without guarantee. The relevant technical values for the construction product were calculated in accordance with the testing standard. Consumption, volumes and times may deviate from test values under practical conditions. To achieve the physical, structural and construction properties of MultiGips plaster systems, only MultiGips system components or products recommended by VG-ORTH GmbH & Co. KG may be used.

Note on English translation This is a translation of the technical data sheet valid in Germany. All stated details and properties are in compliance with the regulations of the EU and German standards and German 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. VG-ORTH GmbH & Co. KG denies any liability for applications outside of EU and Germany as this requires changes according to the respective national standards and building regulations.

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