Data Sheet

Vitafill 9001

**white filler material, free from preservatives,
can be applied by hand and with Airless units, for interior use**

Field of application

For smooth, filler coat suitable for coating and wallpapering, on interior ceilings and walls. Also for rational Airless use as alternative to manual filling. Suitable for load-bearing substrates, such as interior plaster, concrete, aerated concrete, gypsum plasterboard, intact emulsion color coating.

Properties

- Free from preservatives and thus suitable for allergy sufferers
- Low-emission, solvent and plasticizer-free
- Complies with the requirements of the Committee for the Health-related Evaluation of Building Products (AgBB)
- Contains more than 95% natural raw materials
- Ready for application
- Universally suitable
- For interior use
- Rust-inhibiting properties
- Long application time
- Good hiding power
- Highly diffusible, corresponds to class I in accordance with DIN EN ISO 7783
- Fine surface
- Can be applied by hand and using powerful worm-conveyor and Airless units
- Very easy to sand after curing

Material description

Color shade	White
Base material	Finely ground marble powder
Grain size	max. 0.2 mm
Max. Wet application layer	3 mm per work step
Density	Approx. 1.65 g/cm³

Brillux ..more than paint

Material description

Water vapor permeability

Diffusion equivalent air layer thickness: S_d (H_2O) < 0.1 m, corresponds to class I "highly water-vapor-permeable" in accordance with DIN EN ISO 7783

Packaging

15 l

Use

Thinning

Generally not required.
Roller application, if necessary, dilute in water up to a max. of 5%.

Compatibility

Do not mix with other types of materials.

Application

Apply and level out Vitafill 9001 using a stainless steel smoothing trowel. Alternatively the filler material containing no preservatives can also be applied by rolling using Wallpaper Press-On Roller 1108.

Mechanical application
Vitafill 9001 has been specifically adapted to efficient spray filler application using powerful Airless units (piston technology). Remove all filters from the Airless unit and gun for application. Nozzle size, depending on the Airless unit's output, from 0.035" to 0.052" with a spray angle of 20°. Alternatively Vitafill 9001 can also be applied using commercially available worm conveyors. A powerful compressor with a minimum of 500 l/min, for large surfaces with a minimum of 800–1,000 l/min air output is additionally required.

Apply and smooth out Vitafill 9001 as evenly as possible to ceilings first and then apply and smooth out on walls. In very large rooms or in rooms with high ceilings spray and smooth out ceilings and the top of walls up to a height that can be comfortably reached from the ground. Then apply to the bottom part of wall surfaces. As a rule, do not apply more material than that remaining on the surfaces after smoothing. A coating thickness of approximately 1 mm is usually sufficient and guarantees quick application.
Depending on the temperature you can directly start smoothing or after a short waiting period (pay attention to the information in the note).
Apply light pressure towards the direction of joints and the main direction of lighting when smoothing out. Filler burrs can be avoided by pressing down the steel spatulas somewhat harder towards unsmoothed surfaces.
On wall surfaces, initially smooth by around 1/3 from the bottom towards the top, then the remaining 2/3 from top to bottom. After slight surface-drying the corners must be smoothed out using a moist radiator brush.
Excess material can be reused if it has not been contaminated, e.g. for patching.
On smooth substrates it is usually possible to create a surface suitable for wallpapering or spray structure in one single work step.
At minimum two work steps are required on coarse surfaces, particularly high quality standards, e.g. to apply particularly high-grade wall coverings or creative techniques or if you want a surface suitable for painting.

Use

Embedding filling nonwoven

Using Fiberglass Filling Nonwoven 1560 supports a rational application of filler material in particular on coarse and structured surfaces. It optimizes filler's filling capacity and reduces time and effort for sanding afterwards. The material also covers fine hairline cracks in the substrate.
Apply filler material to the entire substrate as described and evenly spread using Notched Trowel 3769 with 4x6x4 mm notch pattern. Place the Fiberglass Filling Nonwoven 1560 onto the still wet filler layer without folds and slightly press down by hand. Position the following lengths with a minimum overlap of 5 cm as part of the double-cut procedure. Subsequently evenly smooth out the entire surface using a smoothing tool, such as a surface filler knife so that the notched trowel structure is completely smoothed. After the surfaces have dried pore off with a second layer of filler material. We do not recommend directly applying another layer without having let the substrate dry as this will slightly offset the nonwoven and produce a more coarse surface.

Speckle effect

The speckle structure can be changed from fine to coarse by varying the material supply, nozzle size, air quantity and air pressure. Airless devices additionally require a corresponding Speckle Structure Set (item no.: 3293.0012.000) and a powerful compressor (500–1,000 l air output). Evenly move the spray gun over the surface in circular movements.
Splashes on adjacent surfaces can be removed or wiped smooth with a steel spatula, or be washed off. Ceiling surfaces do not require a top coat. However, after having been primed with corresponding primer, e.g. Vitasense 9005 or Vitalux 9000 – free from preservatives – they can be coated. We recommend applying material of one production number and assessing the color shade on the basis of a test area for speckled surfaces that will not be painted.

Consumption

Approx. 1.0 l/m² per mm of layer thickness (average values for smoothly shuttered concrete surfaces with standard pore structure).
For embedding filling nonwoven:
Approx. 2.0 l/m² with notched filler knife (4x6x4 mm) and additionally approx. 0.5 l/m² to pore off the nonwoven surface.
For creating the speckle effect: Approx. 0.90–1.3 l/m².
Determine the exact consumption by means of a test application on the object to be coated.

Application temperature

Do not apply if air or object temperature is below +5°C.

Tool cleaning

Clean tools immediately after use with water.

Drying (+20 °C, 65 % relative humidity)

Approx. 3 hours per mm layer thickness. Allow for a longer drying time with thicker layers and if the temperature is lower and/or the humidity is higher.

Storage

Store in a cool and frost-free place. Reseal opened containers tightly. Apply material within 12 months.

Declaration

Product code BSL20
Comply with the specifications in the current safety data sheet.

Coating build-up

Substrate preparation The substrate must be level, solid, dry, clean, load-bearing and free from efflorescence, sintered layers, separating agents, corrosion-promoting components or other intermediate layers affecting adhesion. Check existing coatings for their suitability, load-bearing capacity and adhesive properties. Thoroughly remove defective and unsuitable coatings and dispose of them in accordance with the applicable regulations. Thoroughly wash off limepaint. Wash down intact coats of oil paints and varnishes with an alkaline solution, sand well and clean. Completely remove any wall coverings, including any paste or wall-glue residue. Treat replastered areas with a fluorine primer correctly. Fill larger holes and gaps with Joint and Wall Filler 1875. Apply a prime and/or intermediate coat to the substrate as required. See also VOB Part C, DIN 18363, Section 3.

System build-up with filling

<table>
<tr><th>Substrates</th><th>Primer</th><th>Filling [2)]</th><th>Primer</th><th>Top coat</th></tr>
<tr><td>absorbent substrates, e.g. interior plaster [1)], concrete, plan stone masonry bonded, gypsum plasterboard, matt emulsion paint coating</td><td></td><td rowspan="2">Vitafill 9001 in 1–2 work steps, depending on substrate and demands</td><td rowspan="2">Vitabase 9002</td><td rowspan="2">Depending on selection using emulsion paint that is free from preservatives, CreaGlas Fabric and other wall coverings</td></tr>
<tr><td>Smooth, non-absorbent and glossy substrates, e.g. intact, gloss emulsion paint coats, oil and enamel paint coats</td><td>Adhesion Primer ELF 3720</td></tr>
</table>

[1)] Minimum compressive strength > 2.0 N/mm² (Compressive strength category CS II, CS III, CS IV as well as B1–B7).
[2)] When priming with Vitabase 9002 and applying a top coat using emulsion paint free from preservatives, the entire coating build-up remains free from preservatives.

Notes

Filler build-up free from preservatives

Exclusively use Vitabase 9002 and emulsion paint or products free from preservatives to guarantee a system build-up free from preservatives. Exclusively the filler material with Vitafill 9001 remains free from preservatives in the event that you use other primers and top coats.

Spray application

If possible, spray filler application must be carried out prior to any screed application.

Smoothing and sealing filling work

In contrast to traditional plaster application, it is not possible for filling work to compensate for substrate tolerances of several millimeters. Filling can seal and compensate for pores and indentations on the substrate. This process cannot produce even surfaces.

Filling bonded plan stone masonry

Bonded plan stone masonry intended for filling must have been produced according to manufacturer instructions. When filling plan block elements hairline cracks may form around the joints as a result of plan block elements shrinking when drying. These may be highlighted if the substrate is merely painted, e.g. emulsion paint.

Avoiding bubble formation

On dense, minimally absorbent substrates, fine bubbles can form in the filler layer after smoothing. They can generally be removed by resmoothing after allowing sufficient time for the air to escape. This flash-off time depends on the layer thickness, temperature and humidity. If new bubbles form, resmooth the surface again. Bubble formation can generally be prevented in advance by first applying a thin layer of speckling in an earlier work step that sufficiently covers the substrate. Sufficient time must be allowed for this first application to dry. Alternatively, the surfaces can also be pretreated with Adhesion Primer ELF 3720. Determine the suitable procedure for the specific site by creating test areas.

Protective equipment for sanding

During sanding we recommend you wear personal protective equipment (suitable protective goggles and face mask).

Further information

Follow the instructions on the data sheets of the products used.

Remark

This Data Sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this Data Sheet with updated information is published, the previous version no longer applies. The current version is available on our website.

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