

Vitafill 9001



preservative-free, sustainable, white filler material, that can be applied by hand with screw conveyors and airless units, for interior use



Field of application

To achieve smooth, sustainable filled surfaces for subsequent painting or wallpapering on interior ceiling and wall surfaces. Also for efficient airless spray application as an alternative to manual application. Can be used on load-bearing substrates such as interior plaster, concrete, aerated concrete, gypsum plasterboard, intact emulsion paint coatings.

Properties

- Preservative-free, solvent-free and plasticizer-free, low-emission
- Contains CO₂-reduced binder due to the use of renewable raw materials
- Filled in recycled containers
- Corresponds to requirements set out by "Ausschuss zur gesundheitlichen Bewertung von Bauprodukten" (AgBB, German Committee for Health-Related Evaluation of Building Products)
- Ready for application
- Can be universally used
- For indoor use
- Rust-inhibiting
- Long open time
- High covering power
- Highly diffusible, complies with Class I in accordance with DIN EN ISO 7783
- Fine surface finish
- Can be applied by hand by using powerful screw conveyors and airless units
- Very easy to sand after drying

Material description

Color shade	White
Base material	Finely ground, high-grade marble powder
Grain size	Max. 0.2 mm
Max. wet application layer	3 mm per work step

Material description

Density	Approx. 1.65 g/cm ³
Water-vapor-permeability	Diffusion-equivalent air layer thickness: S_d (H ₂ O) < 0.1 m in accordance with DIN EN ISO 7783, corresponds to class V ₁ "high water vapor permeability" in accordance with DIN EN 1062-1.
Packaging	15 l

Use

Thinning	Normally not required. For roller application, dilute with water up to max. 5% as required.
Compatibility	Do not mix with other types of materials.
Application	Apply and smooth Vitafill 9001 with a stainless-steel smoothing trowel. Alternatively the preservative-free filler material can also be applied by rolling using the Wallpaper Press-On Roller 1108.

Mechanical application

Vitafill 9001 is specially formulated for efficient spray filling with high-performance airless devices (piston technology). For application, remove all filters from the airless unit and gun. Use nozzle sizes, depending on the power of the airless device, from 0.035" to 0.052" with a spray angle of 20°. Alternatively Vitafill 9001 can also be applied using commercially available screw conveyors. In addition, 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 also required.

First, spray Vitafill 9001 onto the ceiling as evenly as possible and smooth the ceiling surface, then move on to the walls. For very large or high rooms, spray the ceiling and the upper part of the walls up to a height that can be comfortably reached from the floor and smooth the surfaces. Then continue work on the lower section of the wall surfaces. In principle, no more material should be sprayed on than the quantity that remains on the surfaces after smoothing. A film thickness of approx. 1 mm is generally sufficient and ensures a quick work progress.

Depending on the temperature, smoothing can begin immediately or after a brief wait (refer to notes).

Smooth with light pressure in the direction of the seams or the main light direction. Filler burrs can be avoided by pressing the steel spatula more strongly toward the unsmoothed surface.

On wall surfaces, first smooth roughly 1/3 from the bottom up, then smooth the remaining 2/3 from the top down. After drying slightly, brush the corners smooth with a damp radiator brush. As long as it is not contaminated, excess material can be reused, such as for preliminary hole filling.

On smooth substrates, a surface suitable for wallpapering or for a spray texture can generally be achieved in a single step.

On rough substrates, in the event of especially high quality requirements (e.g. for application of high-quality wall coverings or creative techniques) or if a surface suitable for painting by brush is desired, at least two coats are required.

Use

Embedding a filling nonwoven

Fiber Glass Filler Nonwoven 1560 is used to support the efficient creation of filled surfaces especially on coarse and textured substrates. This optimizes the filling capacity of the filler and reduces the need for subsequent sanding. In addition, fine hairline cracks in the substrate are bridged.

Apply the filler material as described over the entire surface of the substrate and comb through, evenly with Notched Trowel 3768, notching 4x6x4 mm. Lay the Fiber Glass Filler Nonwoven 1560 into the still wet filler layer without folds and lightly press it by hand. Overlap subsequent layers by at least 5 cm and apply in a double-cut process. Afterwards, evenly smooth the entire area with a smoothing tool, e.g. Surface Filler Knife, to completely smooth the texture from the notched trowel. After drying, fill pores in the surface by applying a second layer of filler material. Direct recoating without intermediate drying is not recommended as the nonwoven shifts slightly and a coarser surface arises.

Sprinkled effect

The sprinkled texture can be varied from fine to coarse by adjusting the material feed, nozzle size, air flow and air pressure. With airless devices, a corresponding sprinkled texture set (art. no.: 3293.0012.000) and a high-performance compressor (500–1,000 l air flow) are also required. Move the spray gun across the surface in even, circular motions.

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 appropriate priming such as with Vitasense 9005 or Vitalux 9000 can be coated – free from preservatives. For speckled surfaces that will not be coated with paint, we recommend using material from a single production batch and assessing the color shade with a sample surface ahead of time.

Consumption

Approx. 1.0 l/m² per mm layer thickness (average values for smoothed, normal porous concrete surfaces).

For embedding a filling nonwoven:

Approx. 2.0 l/m² with 4x6x4 mm toothing and additionally approx. 0.5 l/m² for filling pores in the nonwoven surface.

To create the sprinkled 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 with water immediately after use.

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

Approximately 3 hours per mm layer thickness. Allow longer drying times if the layer is thicker, the temperature is lower and/or the humidity is higher.

Storage

Sealed containers should be stored in a cool and frost-free place for up to 12 months. Reseal opened containers tightly and use material within a few days of opening.

Declaration

Product code

BSL20

Comply with the specifications in the current safety data sheet.

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 the suitability, load-bearing capacity and adhesive properties of existing coatings. Thoroughly remove defective and unsuitable coatings and dispose of them in accordance with the applicable regulations. Thoroughly rinse off reversible, water-sensitive coats (e.g. distemper). Wash down intact coats of oil paints and enamels with an alkaline solution, sand well and clean. Remove any wall coverings including paste residue and paper waste. Treat replastered areas with a fluorine primer. Fill larger holes and joints 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

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

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

Preservative-free filler build-up	To ensure a preservative-free system build-up, only use Vitabase 9002 and preservative-free emulsion paints and products. When required to use other prime coats and top coats, only the filling coat with Vitafill 9001 is preservative-free.
Spray application	The spraying of filler should ideally be performed before the screed work.
Smoothing and closing of holes with filler	As opposed to traditional plastering, for filling work, it is not possible to even out substrate tolerances of several millimeters. Through filling, pores and recesses in the substrate can be closed and evened out. Flat surfaces cannot be created in this way.
Filling bonded precision stone masonry	The bonded precision stone masonry to which the filler will be applied must have been built according to the manufacturers specifications. When filling precision block elements, hairline cracks may occur in the area of joints due to drying-related shrinkage of the precision block elements. If the surface treatment consists only of paint, such as emulsion paints, these cracks may be visible.
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, smooth the surface again. Bubble formation can generally be prevented in advance by first applying a thin layer of sprinkling 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 3720. Determine the suitable procedure for the specific site by creating test areas.
Personal protective equipment during sanding	During sanding we recommend wearing 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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