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Plaster and Façade Systems

PuFa103.de

Technical Information 2017-04

Rotkalk System (Interior) on Magnum Board

Product description

Magnum Board consists of several OSB/4 boards from Swiss Krono that have been adhesively bonded on top of one another, which in a format up to 18.0 x 2.80 m form a solid timber wall. The individual boards have a thickness of 25 mm that can be bonded to one another in up to 10 layers. The automated manufacturing process guarantees a consistent surface quality as well as the level of material moisture. Thus, according to statements from the manufacturer, deformations caused by shrinkage and swelling are kept to a minimum. After assembly drywall elements are the result, a drying phase is unnecessary and thus direct interior fitting is possible.

Magnum Board is building authority regulated by a European technical approval (ETA-13/0784) and is used as a load-bearing, bracing or non-load bearing wall, ceiling or roofing element.

Any required building utilities can be installed in the cable ducts, installation cavities and cut-outs provided.

Manufacturer information

The level, sanded surfaces of our elements can be wallpapered, tiled or otherwise coated immediately. Additional cladding or similar coverings are unnecessary. Special attention must be paid to the surface quality requirements (Q1-Q4). Tilers and painters/decorators, in particular, have nothing but praise for the accuracy, angularity and flatness of the interior walls.

Notes for coating with the Rotkalk system

The Magnum Board elements must be frictionally bonded to one another to avoid deformation due to settling or yielding joints.

Ensure that the wood moisture content stated by the manufacturer is observed. Subsequent penetration of moisture due to effects of weather or other events should be avoided.

The wall elements made of Magnum Board must be dry, dust-free and applied according to manufacturers guidelines.

There may be no offsets, open butt joints and bed joints, flaws or unevenness present.

The coating configuration described here applies exclusively for interior wall surfaces.

Please observe the Product Data Sheets of the products recommended here with respect to the preparation, substrate preparation as well as application, drying and other relevant information:

- Aton Sperrgrund barrier coating, K453a.de
- Rotkalk Fein, P203.de
- Armiergewebe 4x4 reinforcement mesh, K445a.de
- Rotkalk Struktur 1.5, P207.de
- Rotkalk Filz 05/1, P204a.de
- Rotkalk Filz 2, P204b.de
- Rotkalk Farbe E.L.F. paint, B125.de
- Putzgrund primer (from Knauf Bauprodukte)

Coating configuration

Substrate preparation

The following products can be applied on the dry, dust-free Magnum Board wall elements as primers and adhesion promoters:

- Putzgrund primer, undiluted white Haftgrund adhesion primer and Sperrgrund barrier coating, should be applied as a single coat (approx. 250 g/m²) or
- Aton Sperrgrund barrier coating, undiluted insulating and barrier primer, should be applied as a double coating (approx. 400 g/m²)

Apply undiluted Putzgrund primer or Aton Sperrgrund barrier coating evenly and to the entire surface in a crosswise action with a Lambskin Roller or brush. With a double coat, a drying time of at least 12 hours is required.

Fill small cut-outs for cables (maximum 15 x 15 mm) after the primer has dried with Rotkalk Fein. Strike off the plaster level and allow to dry sufficiently before continuing with further work.

Reinforcement for Rotkalk Fein

Apply Gewebeeckwinkel mesh corner angles to the wall inside corners, the reveals and all other edges. Apply approx. 5 mm thick layer of Rotkalk Fein, strike off level and diagonally from the corners of all openings, embed a Gewebeeckpfeile mesh corner arrow or reinforcement mesh strip approx. 30 x 50 cm starting directly from the corner. Subsequently embed reinforcement mesh 4x4 without wrinkles, near the surface with a 10 cm joint overlap and rule with approx. 2 mm Rotkalk Fein.

Finish coat with Rotkalk Struktur 1.5 or Rotkalk Filz 05/1/2

Rotkalk Fein must be dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion. An additional primer is not required and only moisten Rotkalk Fein lightly if necessary.

Rotkalk Struktur 1.5

Apply Rotkalk Struktur 1.5 generously to grain thickness and use a plastic or polystyrene disc and immediately work to the required texture.

Note

Should you strike off Rotkalk Struktur 1.5 too much, there is a possibility that the basecoat will shimmer through.

Rotkalk Filz

Optimum results are achieved if Rotkalk Filz is applied in grain size or texture filling providing full coverage. After it has stiffened lightly, apply Rotkalk Filz *wet in moist* again in grain size and strike level. Subsequently rub down the smoothed material with the Rotkalk sponge float without water. Texture with a wet brush with free texturing.

To ensure a homogeneous colour shade, with pigmented Rotkalk Struktur 1.5 or Rotkalk Filz, additionally apply Rotkalk Farbe E.L.F. paint that is optimally matched to the Rotkalk system.



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