Application Guide

pro clima ORCON F® Multi-purpose joint adhesive

What for?

Multi-purpose joint adhesive for indoor and outdoor applications

- ✔ Airtight bonding in accordance with DIN 4108-7, SIA 180 and ÖNormB8110-2
- ✔ Airtight outdoor joints, e.g. vapour check for external roof insulation or sub-and-top refurbishment vapour check for reroofing
- ✔ Wind-proof bonding of roof underlay and facade membranes

Where applied?

ORCON F can be used to bond all pro clima vapour check and airtightness membranes as well as PE, PA, PP film and aluminium, to adjoining structural components with smooth or rough (or stone) surfaces durably and reliably, such as rough timber, plaster, masonry or concrete. ORCON F should not be used on untreated metal surfaces, for which we recommend pro clima adhesive tapes.

Advantages

One adhesive for almost any application

- ✔ Does not require a pressure lath
- ✔ Combines permanent flexibility with high strength and elasticity
- ✔ Penetrates deep into the substrate
- ✔ Can be used on damp surfaces

SEE OVER FOR FURTHER DETAILS >>

Preparation

All surfaces must be stable, dry, smooth and free of dust, silicone and grease. Brush down all surfaces and vacuum clean or wipe with a cloth if necessary. On sanding plaster or surfaces with very fine dust it may be necessary to prime the surface with BUDAX AC.

Joints to plastered gable walls

Apply a continuous bead approx. 5 mm thick (or more on rough surfaces). Lay the membrane in place with an expansion joint. Do not press completely flat to allow for structural movement.

Joints to plastered jamb walls

Seal joints in the same way as shown previously for gables. Ensure there is an adequate expansion joint. Do not press the adhesive completely flat.

As a general rule, pressure laths are usually not required on stable surfaces.

Joints to rough timber

For joints to rough rafters or roof beams, apply a continuous bead of ORCON F approx. 5 mm thick (or more on rough surfaces), incorporating an expansion joint if possible. Do not press the adhesive completely flat.

Joints to unplastered walls

Use CONTEGA PV for well-defined joints to plaster. Attach the fleece as far as possible into the corner using a few dabs of ORCON F, ensuring that there are no voids under the tape.

Joints to unplastered walls

Position the vapour check, then remove the release paper from the back of the CONTEGA PV and affix the fleece to the airtightness layer using the adhesive tape and press to secure firmly.

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Joints to unplastered walls

Bed CONTEGA PV in the center of the plaster by pushing back the fleece and reinforcement, applying plaster to the wall behind CONTEGA PV, laying the fleece and reinforcement in the freshly applied layer of plaster and then completing the plaster work – all done!

Details on pipe and cable ducts

Seal all round penetrations with EPDM grummets. Cable grummets have a self-adhesive. Stick pipe grummets to the substrate with TESCON No.1 to form an airtight seal and press to secure firmly.

Joints to sub-and-top membrane

Attach refurbishment vapour check (e.g. pro clima DASATOP) to rough or stone surfaces with a continuous bead approx. 5 mm thick (or more if necessary), incorporating an expansion joint if possible. Do not press the adhesive completely flat. Press the membrane carefully into the corners.

Joints to outer airproofing layer

For external rafter insulation with continuous rafters overhanging the eaves, glue the vapour check (e.g. pro clima DA) to two timberboards above the wallplate with two parallel strips of ORCON F. Then stick the two timberboards to the rafters using two parallel strips of ORCON F.

Joints to OSB wall or concrete floor slab

Apply the ORCON F. To save time, apply two beads simultaneously using a double dispensing gun. When crossing RAPID CELL, use a transfer tape such as UNI TAPE or TESCON No.1, as pro clima ORCON F does not stick to RAPID CELL.

Joints to wall or concrete floor slab

Next, apply a strip of pro clima DA-S and press into the bed of adhesive. Do not press completely flat to allow for structural movement.

Composition

pro clima ORCON F is made of non-ageing acrylate polymers without softeners or halogenated compounds, which is insusceptible to embrittlement.
It uses water and denatured alcohol (15%) as solvents.

Substrates

All surfaces must be suitable for permanent, airtight adhesion with air sealing adhesives, and must be stable, dry, smooth and free of dust, silicone and grease. Optimum results for the safety of the building are achieved by using high quality vapour check membrane and airtightness membranes, for example made of PE, PA, PP and aluminium foil, as well as sheathing paper or wood-based panels (e.g. OSB). Check the suitability of the substrate. Adhesion tests may be necessary.

Wet process: One of the materials being joined (either the membrane or the adjoining structure) must be absorbent. Apply ORCON F and then lay the membrane directly onto the bed of adhesive. Do not press the bead completely flat. The wet method can be used for all of pro clima's vapour checks.

Dry process: This process is more complex and is recommended if the membrane and the structure it is being joined to are not (or not very) absorbent, for example for joining PE film to concrete.

Apply ORCON F and leave to dry for 1-2 days before pressing the membrane onto the dry adhesive and it will stick immediately.

Terms & Conditions

The information provided here is based on the current state of the art and our own experience. We reserve the right to make changes to the recommendations given or to make alterations due to technical developments and associated improvements in the quality of our products. We would be happy to inform you of the current technical state of the art at the time you use our products.

Further information about application and construction is given in the pro clima planning documentation.

(Please also take note of the recommendations contained in the current pro clima application matrix)

If you have any questions, please call our technical hotline

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Temperature resistance	long term from -40°C to +80°C
Processing temperature	over -10°C
Delivery form	310 ml cartridge for 6-15 m 600 ml tube for 12-30 m
Storage life	24 months (keep cool and dry!)

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...and the insulation is perfect

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