Technical Data Sheet

Wikofix® DFK 1277

Film adhesive for airtight connections of vapour retarders and vapour barriers to masonry, also adheres to delicate substrates such as PE, PP, PA; freeze-resistant and self-adhesive

Application areas

- for bonding and sealing between vapour retarders / barriers and masonry acc. to DIN 4108-7 / SIA 180
- for airtight and windtight bonding and sealing of diffusion-tight and vapour diffusion-open window tapes (foil tapes) in door and window construction, such as «Wikofix-FBA window tape OUTSIDE» or «Wikofix-FBI window tape INSIDE»
- due to the immediate adhesion to almost all absorbent substrates commonly used in construction, countless other sealing bonds and special works can also be realised; in particular those in accordance with the Energy Saving Ordinance EnEV 2016 (German standards)
- also for double-sided bonding of non-absorbent substrates by means of the contact bonding method (steam breaks etc.)
- suitable for the interior zone and in outdoor areas protected from moisture
- ideal for building envelope, new building, renovation construction, window manufacture, handicraft and industry

Product benefits

- achieves the required airtight connections / terminations of the building envelope
- for a vapour barrier adhesive ist achieved an unusually high level of bond strength (holding at 1000 Pa, hurricane force).
- fulfils the requirements according to DIN 4108-11 (thermal insulation and energy conservation in buildings - Part 11: Minimum requirements for the durability of bonded joints using adhesive tapes and adhesives for the construction of airtight layers)
- outstanding adhesion to most substrates
- good adhesion to poorly adhering substrates like polyethylene (PE), polypropylene (PP) or polyamide (PA), non-woven and many types of rubber
- does not become brittle; remains permanently plastoelastic after it has dried
- accelerated curing
- high initial adhesion; adhesion is continuously increased during the drying process, lightweight parts require no fixing or support
- can be used without a pressure bar for joints in new build and refurbishment projects (acc. to DIN 4108-7)
- despite immediate adhesion, remains adjustable for some time after bonding
- non-dripping
- has a filling effect and eliminates irregularities
- water-based
- almost odourless
- good ageing resistance
- pH-neutral, corrosion-resistant
- frost resistant up to -30 °C, can withstand the cold of a winter night in an assembly vehicle without damage

Base

modified acrylate polymer dispersion (physically drying)

Wikofix® DFK 1277

Restrictions	Not rainproof at the beginning of curing; protect against continuous rain in the initial period of cross-linking. Not suitable for use in standing water like e.g. for pond liners or in the swimming pool area, oil and bitumen-containing substrates, Teflon®, glass, mirrors, acrylic glass, waxy substrates, expansion joints.
Cleaning agents	Wisaclean R 216 for cleaning non-absorbent adhesive surfaces and fresh product residues. Cover the cured adhesive with cloths soaked in Wisatyp SA solvent and let it take effect. Once the glue has softened, it can be removed. Depending on the thickness of the adhesive film, repeat the process if necessary. To wash your hands, please use water and soap. Fresh adhesive can also be removed with a damp cloth.
Processing	The bonding surfaces must be sound, dry and free of dust and grease. Clean non-absorbent surfaces with Wisclean R 216. Check treated and non-absorbent surfaces with an adhesion test. Non-load-bearing substrates, such as crumbling plaster, must be repaired beforehand. The product is applied on one side in beads of 4 - 8 mm diameter, or even more for recesses. If required, surface application is also possible using a notched trowel. To ensure that the adhesive can dry quickly, at least one bonding surface should be absorbent. Alternatively, for surfaces that are not absorbent on both sides, bonding can also be carried out using the contact bonding method; i.e. before assembly, the parts should be exposed to air until the adhesive is dry to a certain degree (ca. 16 - 20 h in a dust-free environment). Then press the parts to be bonded immediately or within 16 - 20 h at the latest, but do not press too flat (layer thickness at least 1 mm). No pressure lath is required for bonding vapour control layers if the loops are formed appropriately.
Density	ca. 1.16 g/ml
Adhesive film	permanently plastoelastic, self-adhesive
Consistency	pasty, firm
Volume shrinkage	ca. 10 % by volume (for absorbent substrates up to 20 % by volume)
1st functional strength	as from now
Final strenght	from 48 h (depending on application thickness, absorbency of the substrate, temperature, material moisture and relative humidity)
Recoatability	After complete drying, good coatability with most water-based and synthetic paints (excluding mineral colours). It is advisable to test the compatibility with the colours concerned before application.
Temperature-resistant	from -30 °C up to +80 °C (once fully dry)
Repairing	Can be repaired with the same material. Loosened adhesive joints can be rejoined if necessary due to the self-adhesive properties.

Wikofix® DFK 1277

Substrates

Mansory (bricking), plastering, sanding, beton, wood-based materials, various plastics, such as PVC-hard, PE, PP, PA, polystyrene, treated metals and many other common construction materials. For further surfaces, you will need to carry out your own tests.

Processing temperature

from +5 °C up to +35 °C (assembly adhesive sealing compound)
from -5 °C up to +35 °C (substrate, ice-free)

At substrate temperatures below 0 °C, the foils must be pressed down once the frost line has been exceeded; this to achieve better adhesion, as there is a risk of water entrapment.

Further information

You can find more information about this product (link to the product on our homepage, safety data sheet, certificates, special enquiries etc.) under the adjacent ISOPIN QR code.

Certificates / Norms

- Eurofins indoor climate; no negative impact on the indoor climate
- Fraunhofer Institut Bauphysik, test report «Air permeability of a building component sandwich panel with joints and vapour control layer bonded with Wikofix DFK 1277» (Airtightness of vapour retarders / barriers bonded according to DIN 4108-7 (2001-8) in accordance with DIN 18055, DIN EN 42 and DIN EN 77; cyclical pressure / suction load: 600 Pa (approx. 140 km/h wind speed) and 1,000 Pa (hurricane force)

Item no. / Colour

DFK 1277 light blue - cartridge of 310 ml / 360 g
DFK 1277.600 light blue - tubular bags of 600 ml / 696 g

Delivery form

carton box of 12 cartridges
carton box of 12 tubular bags

Shelf life

In closed original packaging, protected from direct sunlight and stored in a dry place between +15 °C and +25 °C, the official shelf life is at least 24 months from date of production (the printed expiry date is decisive).

Safety and disposal: Familiarise yourself with the valid Safety Data Sheets (SDS) for the products used. All applicable safety regulations and disposal instructions must be observed.