



COSMO® DS-420.110

*** COSMOPLAST 274

Adhesive sealant for assembly works

Examples for Application

- For permanently elastic, airtight bonding of joints, structural connections and overlaps, sealing of diffusion barriers, vapour-proof barriers, and sealing films in dry construction (except swimming pools) in accordance with the Buildings Energy Act (GEG).
- Bonding/Sealing of diffusion-tight and moisture diffusing seal tapes with window and door assembly
- Building trade in general
- With many assembly bonding processes
- Diverse industrial fields

Special Properties

- Very low emission*
- permanently elastic adhesive joint
- Thixotropic, does not drip off
- Joint filling
- Solvent-free
- freeze-resistant
- Very high initial adhesion
- Fast functional strength
- Can be used without contact pressure lath in accordance with DIN 4108-7 (2011-01) for joints and connections with new building and refurbishment measures.
- It meets the requirements as per DIN 4108-11
- Excellent adhesion to the most varying building materials (stone, concrete, plaster, floor screed, dry lining boards, wood and diverse metals) as well as to the films in question
- Achieves the required air-tight connections/final sealings of building envelopes
- Bonding of films, window joint tapes, on slightly humid, dusty and absorbent substrates
- Good early rain resistance
- high adhesive strength after complete curing time
- no corrosion caused on metals

Certificates / Test reports

GEV

*Classified in the EMICODE class EC1 PLUS in compliance with the criteria of the GEV.

Licence No.: 4279



French VOC-Emission class A+

Technical Data

Basis	Modified acrylate polymer dispersions
Colour hard-dry	approx. RAL 6019 -6027 Pastel green - Light green
Viscosity at +20 °C	medium viscous-pasty
Density as per EN 542 at +20 °C	approx. 1.40 g/cm ³
Curing time depending on the absorbency of the materials and bead thickness	from 24 h
Frost resistance	to -30 °C
Operation temperature range	from -30 °C to +80 °C





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Processing temperatures adhesive sealant	from +5 °C to +30 °C
Processing temperature building materials and environment	above -5 °C

Applied quantity / adhesive yield

Diameter of adhesive bead	310 ml Euro-cartridge	600 ml tube bag
4 mm	24.7 run. metres	47.7 run. metres
5 mm	15.8 run. metres	30.6 run. metres
6 mm	11.0 run. metres	21.2 run. metres

General Information

One of the material substrates must be absorbent.

If films, window joint tapes, etc. are bonded outdoors, make sure that, despite mostly good "early rain resistance of the adhesive sealants, there is no intensive moisture load, e.g. though continuous rain, or running off moisture.

Cured dispersion adhesives have a good water resistance, however applications with continuously high air humidity, e.g. swimming pool or other wet room areas (among others, also because of the aggressive chloric and humid air) are to be avoided.

Dispersion adhesives cure because moisture is released (physical drying); the building material must be sufficiently absorbent to ensure the hardening of the dispersion adhesive.

Examples for material moisture for orientation:

Building materials	Vol. %
Roof-tiles	≤2.5
Plaster	≤5
Dry lining boards	≤5
Concrete	≤5
Cellular concrete	≤8
Wood	≤12

In the individual case, the material has to be prepared (e.g. heating , pre-drying of the surfaces to be bonded /adhesive) in a sufficient way; provide for sufficient room ventilation.

The curing time (drying process) varies depending on temperature and air humidity.

The here specified time parameters can only be determined accurately by self-tests because they are strongly influenced by material characteristics, temperature, applied quantity, air humidity, material humidity, thickness of adhesive film, press power, and other criterions. Usually, appropriate safety factors are considered for the guiding values.

Preparation

Acclimatize the product before the application to processing temperature. Do not spontaneously heat up with heaters.

The surfaces of the workpieces to be bonded must be dry, and free from dust and grease.

Application on frozen, ice-free surfaces is possible provided that the climatic conditions reach +5 °C on this workday

Bonding

The adhesive is homogeneously applied (as thick bead of 4 - 6 mm) on the film, the window groove strip, or on the supporting building material (also possible on slightly humid, dusty, absorbent substrates).





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After that, the film or the window joint tape, is fit together with a relief loop for strain relief within the wet phase of the adhesive bead and fixed by slightly pressing on (do not press the bead flat, >1 mm thickness shall remain).

The adhesive is not self-adherent and therefore, it is not suitable for the method of contact bonding.

Important instructions

Only instructed personnel in specialist firms are allowed to use the product!

Our user instructions, processing guidelines, product- and performance data, and other technical statements are only general directives; they describe only the condition of our products (values, determination of values on the date of completion) and the performances do not represent a warranty in the sense of § 443 BGB. **Because of the wide variety of applications of the individual product and the relevant special conditions (e. g. processing parameters, material characteristics, etc.), it is up to the user to test it itself;** our free expert advice for application provided in speech, writing, and as test is nonbinding.

Please, also consider the Safety Data Sheet!

Cleaning

Tools with fresh, not-cured adhesive can be cleaned with water.

Cover the cured adhesive with a cloth soaked with COSMO® CL-300.150 and let it act. After the adhesive has been softened, it can be removed. Depending on the thickness of the adhesive film, this process is to be repeated.

Storage

During the storage time, viscosity is increasing.

Store the hermetically closed original trading units in a dry place at temperatures of +15 °C to +25 °C no direct sun radiation.

While transported within the usual transport times, the product may be exposed to temperatures from -30 °C to +35 °C.

Storage life in unopened original packaging: 12 Months

Packaging

310 ml PE-Euro cartridge, net weight: 435 g

600 ml Alu/PP-tube bag, net weight: 840 g

Other trading units on request.

Industrieverband
Klebstoffe e.V.

Weiss Chemie + Technik
GmbH & Co. KG
Hansastraße 2
D-35708 Haiger

Tel.: +49 (0) 2773 / 815 - 0
Fax: +49 (0) 2773 / 815 - 200
Email: ks@weiss-chemie.de
Web: www.weiss-chemie.de