COSMO® PU-100.120

****COSMOPLAST USK 815, beige*

Adhesive sealant

Examples for Application

- Adhesive sealant for wind- and rain-seal overlapping bonding as well as bonding of building body connections of underroof, underceiling, undertrussing and façade sheets in compliance with the energy saving regulation EnEV 2016
- Sealing of underroof, underceiling, undertrussing and façade sheets in the area of the nail staples for sheet fixation as well as for sealing of the counter battens nailing with rafters to achieve "rain-safe roofing"

Special Properties

- tough-elastic adhesive joint
- It has optimum penetration properties in fleece layers of the mentioned roofing sheets, so that a permanent rain-safe sealing is achieved.
- Due to the slight foam structure which is generated during the curing process, the nail and staple areas are well sealed to be rain-resistant, e.g. when the above mentioned roofing sheets and the counter battens are fixed.
- It does not include solvents which could damage the compound and the functioning of the roofing sheets.
- Thixotropic, does not drip off
- Expands (foams) during the curing process!

Technical Data

Basis	1-C-humidity-cross-linking polyurethane
Colour hard-dry	beige
Viscosity at +20 °C	medium viscous-pasty
Density as per EN 542 at +20 °C	approx. 1.54 g/cm³
Skinning time - dry at +20 °C, 50 % r. H., applied quantity 500 µm-PE/PVC	approx. 7 min
Curing speed at +20 °C, 50 % r. H.	approx. 2.5 mm in 24 h
Curing time at +20 °C, 50 % r. H. until it reaches the final strength	approx. 7 d
Applied quantity depending on carrier material	approx. 25 g/linear metre
Processing temperature building materials and environment	from -5 °C
Processing temperatures adhesive sealant	from +7 °C to +30 °C

General Information

If permanent humidity impact is expected, the bonded joints/bonded surfaces must additionally be sealed/protected using a "suitable sealant".

The cured mass changes its colour due to UV radiation but not its strength in the cured bonded joint.

Caution: the viscosity of the 1-C-PUR adhesives is approximately twice as high at +15 °C as at +25 °C.

Skinning, joining times, as well as the required press and following processing times can only be determined accurately by self-tests because they depend on material, temperature, applied quantity, air humidity, material humidity, thickness of adhesive film, press power, and other criterions. For processing, appropriate safety allowances shall be planned in addition to the specified guiding values.

Preparation

Acclimatise the product before the application.

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 +7 °C on this workday

Depending on the material surface, check if the bonding result can be improved by grinding or applying of primer.

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Polyolefins (among others PE, PP) cannot be bonded without preparation, e.g. plasma- or corona treatment. If PS-hard surfaces are bonded, generally we recommend using a primer.

Check the adhesion on roofing sheets/glued surfaces that are not coated with fleece with respect to the foil.

Bonding

The mass is applied on one side as bead on one of the parts to be bonded.

If non-absorbing materials are bonded (material humidity <8 %), water must be "sprayed very finely" onto the adhesive to achieve complete curing.

The workpieces must be fit together and pressed within the skinning time.

After they have been fit together, the parts must be fixed and pressed until functional strength has been reached.

Remove oozing adhesive when it is fresh.

Bonding of metals

Bonding of aluminium, copper, brass: only on chemically pretreated or varnished surfaces; these materials cannot be durably bonded to be age-resistant without appropriate pre-treatment of the surfaces to be glued.

Due to the difficult definition of aluminium surfaces and qualities, we generally recommend gathering sufficient information from the supplier to prepare the planned bonding process optimally; sufficient qualification tests are required.

Due to their variety, age and, if necessary, additional treatment with oil or wax, anodized surfaces do not allow any general statement about wettability or bonding characteristics of these bonding surfaces.

If stainless steel is manufactured or processed, auxiliary aids, e.g. wax, oil, etc, are often used, that usually cannot be removed by simple wiping away; it turned out that after the cleaning with solvent-based cleaning agents a clearly better bonding result will be achieved after grinding, or better sand blasting, of the surface and following cleaning with solvent.

Galvanized sheet metals must generally be protected from stagnant humidity that is permanently acting on it "formation of white rust". In this case, it must be excluded that occurring humidity can get onto the bonding surface.

If metals are bonded with absorbent materials (e.g. wood, building materials, etc.), humidity can be transported slowly through the absorbent material, through the bonded joint, to the metallic surface and here, it can cause corrosion damages on the metal. Therefore, the metallic bonding surface must be equipped with an appropriate corrosion protection, e. g. varnish, powder coating!

Powder coatings with shares of PTFE cannot be bonded reliably without pre-treatment (e. g. plasma procedure).

Important instructions

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

Follow the instructions provided by the manufacturer of the roof sheeting!

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

Remove the fresh, not cured adhesive from the surfaces and the tools using COSMO® CL-300.150.

Cured adhesive can only be removed mechanically.

Storage

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.

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Storage life in unopened original packaging: 12 Months

During the storage time, viscosity is increasing, reactivity is decreasing.

Packaging

310 ml PE-Euro cartridge, net weight: 470 g

600 ml Alu/PP-tube bag, net weight: 900 g

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