Technical datasheet

OTTOCOLL® P 85

PREMIUM

The high-strength premium PU adhesive

8 MPa

1-component adhesive based on polyurethane | For indoor and outdoor application | P 85

Characteristics

- Extremely high final strength - Resistant to high mechanical stresses
- Fast curing - Short pressing and fixing times
- Compatible with natural stone - Does not cause greasy deposits on natural stones
- Grindable and paintable after curing
- Foaming / gap bridging - Compensates minor unevenness

Fields of application

- Bonding of stone, natural stone and ceramic
- Bonding of insulating units, e. g. made of polystyrene, PVC, PU etc.
- Bonding of window sills, floor strips, decorative strips and stairs
- Bonding and mounting different materials, such as wood, wooden materials, plastics, metals and mineral substrates

Standards and tests

- Tested fire behaviour in accordance with EN 13501: class E
- French VOC-emission class A+
- Suitable for applications according to IVD instruction sheet no. 30+35 (IVD = German industry association sealants)

Technical properties

Open time at 23 °C/50 % RH, coloured [minutes]	~ 5 - 10
Open time at 23 °C/50 % RH, transparent [minutes]	~ 20
Processing temperature from/to [°C]	+ 5 / + 35
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1, coloured [g/cm³]	~ 1,5
Density at 23 °C according to ISO 1183-1, translucent [g/cm³]	~ 1,1
Temperature resistance from/to [°C]	- 30 / + 80 [1]
Pressing time at 23 °C, coloured [minutes]	~ 45
Pressing time at 23 °C, translucent [minutes]	~ 60
Pressure, max. [kg/cm²]	8 [2]
Coverage of adhesive [g/m²]	~ 250
Recommended wood humidity [%]	~ 8 - 16
Shelf life at 23 °C/50 % RH for cartridge/foil bag [months]	18
Shelf life at 23 °C/50 % RH for pail/drum [months]	12

1) temporarily + 100 °C

2) With usual pressing tools and depending on type of application

These data are not suitable for the issue of specifications. Please contact OTTO-CHEMIE before issuing specifications.

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SEALING & BONDING

Pretreatment

The adhesive surfaces must be cleaned and any contamination such as release agents, preservatives, grease, oil, dust, water, old adhesives/sealants and other substances impairing adhesion must be removed. Cleaning of non-porous substrates: Clean with OTTO Cleaner T (no flash-off time required) and a clean, lint-free cloth. Cleaning porous substrates: Clean surfaces mechanically, e.g. with a steel brush or a grinding disc, to remove loose particles.
Smooth substrates should be grinded and dusted.
The adherent surfaces have to be clean, free from dust and grease as well as sustainable.

Important information

Before applying this product the user has to ensure that the materials in the area of contact (solid, liquid and gaseous) are compatible with it and also amongst each other and do not damage or alter (e. g. discolour) each other. As for the materials that will be used at a later stage in the surrounding area of the product the user has to clarify beforehand that the substances of content or evaporations do not lead to an impairment or alteration (e. g. discolouration) of the product. In case of doubt the user should consult the respective manufacturer of the material.
For bondings outside, influenced by humidity and/or UV-radiation we advise the use of our STP or hybrid adhesives. Excepted from this is the weather-stressed bonding of wood and wood materials with subsequent protective paint according to DIN EN 204 D4.
Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant.
Compatible with marble and natural stone and does not cause migratory staining or discolouring on these materials.
In case of UV-radiation stress discolourations may occur.
Clean the tools, e.g. spatula, with OTTO Cleaner MP before the adhesive has cured.
The cured adhesive can only be removed mechanically.
Not suitable for the bonding of butt joints of gypsum fibre boards.
Not suitable for the bonding of glass, polyethylene (PE), polypropylene (PP), polyamide (PA), polyfluoroethylene (PTFE), bituminous, waxy or oily substrates or similar.

Application information

It is sufficient to apply the adhesive on one side. Spread the adhesive with a spatula full surface.
Cures by reaction with humidity. During curing, a small amount of CO2 is released. This results in an increase of volume of the adhesive.
Fix the substrates, which are to be bonded, until the adhesive is completely cured.
One of the substrates should be porous respectively permeable to water vapour.
The moisture necessary for curing can be achieved by slightly spraying with water. The adherent surfaces may be moist, but not wet. The parts should be assembled immediately if possible, at the latest however within the skin-forming time.
Curing time can be reduced by humidification and increased temperatures.
Due to the many possible influences during and after application, the customer always has to carry out trials first.
Please observe the recommended shelf life which is printed on the packaging.
We recommend to store our products in unopened original packagings dry (< 60 % RH) at temperatures of +15 °C up to +25 °C. If the products are stored and / or transported at higher temperatures / air humidity for longer periods (some weeks), a diminuition of durability or a change of material characteristics may arise.

Packaging

	310 ml cartridge	580 ml aluminium foil bag
beige	P85-04-C16	P85-08-C16
translucent	P85-04-C95	on request
Pieces per packaging unit	**20**	**20**
Pieces per pallet	**1200**	**600**

Due to typographical reasons the colours shown below may differ from the original colours of the products.

Safety precautions

Please observe the material safety data sheet.
Only for commercial users.
After curing, the product is odourless.

Disposal

Information about disposal: Please refer to the material safety data sheet.

Brand information

Styropor® is a registered brand of the company BASF SE (Ludwigshafen)

Warranty information

The above information and our technical application advice, whether verbal, in writing or by means of tests, are provided to the best of our knowledge, but are non-binding, including with regard to any third-party property rights. The information in this publication does not exempt the processor from carrying out their own tests on our products with regard to their suitability for the intended processes and purposes. The application, use and processing of our products and the products manufactured on the basis of our technical application advice are beyond our control and are therefore the sole responsibility of the processor. If the application for which our products are used is subject to an official authorisation requirement, the user is responsible for obtaining these authorisations. We reserve the right to adapt the product to technical progress and new developments. For the rest, we refer to our General Terms and Conditions, in particular with regard to any liability for defects. You can find our GTC at www.otto-chemie.de.