PREMIUM

OTTOCOLL®
P 85

Technical Datasheet

1-component adhesive based on polyurethane

For indoor and outdoor application

Characteristic:

- **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**

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 according to DIN EN 204-D4 weathering resistant bonding for wood and derived wood products by the ift Rosenheim, Germany (institute for window techniques)
- Tested according to DIN EN 14257 (WATT 91) - Bonding strength of sealants for wood and derived wood products (ift Rosenheim, Germany)
- Suitable for applications according to IVD instruction sheet no. 30+35 (IVD = German industry association sealants)
- Conform to LEED® v3 IEQ-credits 4.1 adhesives and sealants
- French VOC-emission class A+
- Tested fire behaviour in accordance with EN 13501: class E

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.

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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.

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]	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.

Pretreatment:

All adherent surfaces must be clean and any contaminant such as release agents, preserving agents, grease, oil, dust, water, old adhesives or sealants and other substances which could affect adhesion, should be removed. Cleaning of non-porous substrates: Apply OTTO Cleaner T (airing time approx. 1 minute) using a clean, lint-free cotton cloth. Cleaning porous substrates: Clean surfaces with steel-wire brush e. g. or a grinding disk 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.

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
Packaging unit	**20**	**20**
Pieces per pallet	**1200**	**600**

Safety precautions:

Please observe the material safety data sheet.
After curing the product is completely odourless.

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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:	All information in this publication is based on our current technical knowledge and experience. However, since conditions and methods of use and application of our products are beyond our control, we suggest that you test the product before final use. Information given in this technical data sheet and explanations of OTTO-CHEMIE in connection with this technical data sheet (e.g. service description, reference to DIN regulations etc.) is not to be seen as a warranty. Warranties require a separate written declaration of OTTO-CHEMIE to prove their validity. The characteristics stated in this data sheet define the characteristics of the article broadly and concludingly. Suggestions of use are not to be taken as confirmation of the appropriateness for the recommended intended use. We reserve the right to alter the product, adjusting it according to technical progress and new developments. We are at your disposal both for inquiries as well as specific application problems. If a governmental approval or clearance is necessary for the application of our products, the user is responsible for the obtainment of such. Our recommendations do not excuse the user from the obligation to take into consideration the possibility of infringement of third parties' rights and - if necessary - resolving it. For the rest our general terms and conditions apply, in particular regarding a possible liability for defects. You can find our general terms and conditions on our homepage: http://www.otto-chemie.de/en/terms-and-conditions

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