

OTTOCOLL®**P 83****Technical Datasheet****Characteristics:**

- 1-component adhesive / sealant based on polyurethane
- Cures practically shrink-free without foaming
- Elastic and stress-compensating
- Non-corrosive
- Silicone-free
- Compatible with coatings according to DIN 52452
- Grindable and paintable after curing
- Extremely high resistance to impact load, shock load and peeling load
- Very good adhesion on many types of materials such as plastics, metals, wood and derived timber products, concrete
- Resistant to water, salt water, weak acids and alkaline, aqueous cleaning agents

Fields of application:

- Vibration- and movement-compensating bonding and sealing
- Sealing of air condition and ventilation systems
- For the bodywork and vehicle construction, waggon and container construction, metal construction and apparatus engineering, ship building

Standards and tests:

- Declaration of no objection when in contact with food (ISEGA Forschungs- und Untersuchungs-Gesellschaft mbH, Aschaffenburg, Germany)

Important information:

Before applying the adhesive / sealant the user has to ensure that the materials in the area of contact (solid, liquid and gaseous) are compatible with the adhesive / sealant and do not damage or alter (e. g. discolour) them. As for the materials that will be used at a later stage in the surrounding area of the adhesive / sealant 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 adhesive / sealant. In case of doubt the user should consult the respective manufacturer of the material.

Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant.

Not or only temporarily resistant to organic solvents and acids, concentrated alkaline solutions and mineral acids, lacquer solvents and paint thinners.

A binding statement concerning resistance can be given only after an application related testing.

According to relevant standards, elastic sealants should generally not be painted all-over, since mechanical stress and movement can cause cracks in the non-elastic-paints.

Curing depends on thickness of layer, temperature and air humidity. At temperatures below + 5 °C curing speed reduces immensely.

In case of UV-radiation stress discolourations may occur.

Not suitable for the bonding of glass, polyethylene (PE), polypropylene (PP), polyamide (PA), polyfluoroethylene (PTFE), bituminous, waxy or oily substrates or similar.

Technical properties:

Skin-forming time at 23 °C / 50 % RAH	approx. 50 minutes
Curing in 24 hours at 23 °C / 50 % RAH	approx. 2 - 3 mm
Processing temperature	+5 °C up to +35 °C
Viscosity (23 °C)	pasty, stable
Density at 23 °C	approx. 1,3 g/cm ³
Shore-A-hardness (DIN 53 505)	approx. 40

Permissible movement capability	approx. 15 %
Stress expansion modulus at 100 % (DIN 53 504, S3A)	approx. 0,7 N/mm2
Tensile strength (DIN 53 504, S3A)	approx. 3,0 N/mm ²
Retroactivity (ISO 7389)	approx. 70 %
Temperature resistance	-40 °C up to +80 °C
Shelf life at 23 °C / 50 % RAH for cartridge / foil bag	12 months

These data are not suitable for the issuing 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. The adherent surfaces have to be clean, free from dust and grease as well as sustainable.

Primer Table:

The demands on elastic sealings and bondings depend on the respective exterior influences. Extreme fluctuations in temperature, tensile or shear forces, repeated contact with water etc. demand high requirements of a bonding. In such cases it is advisable to apply primer according to the recommendations of our technical department (e. g. +/OTTO Primer 1216) in order to achieve a resilient bonding.

Aluminium	+
Aluminium anodized	1226
Aluminium powder-coated	1226 / T
Concrete	1225
Stainless steel	+ / 1226
Fibre cement	1225
PVC unplasticized	1227
Zinc, galvanised iron	+ / 1226

+ = good adherence without primer

- = not suitable

T= Test/pilot test advised

Application information:

Because of the variety of possible influences while processing and applying customer tests are required.

Please observe the recommended shelf life which is printed on the packaging.

We recommend to store our products in unopened original packagings dry (< 60 % RAH) 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 diminution of durability or a change of material characteristics may arise.

Packaging:

Please see the packagings available from stock in our current General Catalogue for Building Products.

Trading unit/Container	Packaging unit	Pieces per pallet
580 ml aluminium foil bag	20	600
310 ml aluminium cartridge	20	1200

Colours:

C02	grey	C01	white
C04	black		

Safety precautions:

Only for commercial users.

Please observe the material safety data sheet.

Disposal:

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

Warranty information:

All information in this publication is based on our current technical knowledge and experiences. However, since conditions and methods of use and application of our products are beyond our control, we suggest you to 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. If you happen to not have our general terms and conditions at hand, we will gladly send them to you upon request. You can also find them on our homepage: http://www.otto-chemie.de/englisch/unternehmen/agb/AGB-Englisch_04-05.pdf



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