How to apply adhesives perfectly
OTTOCOLL® TopFix

For powerful bonding of absorbent materials
OTTOCOLL® TopFix is an adhesive based on acrylate which is solvent free and very good suitable for the bonding of absorbent materials such as wood, derived timber products, fibre cement, concrete, etc.

Characteristics:
- Non-sag adhesive based on acrylate for many assembly applications
- Extremely high initial adhesion and high final strength
- Neutral odour

Fields of application:
- Bonding of corrosion-resistant metals, e.g. aluminum, stainless steel, anodized aluminium
- Bonding of wood and derived wood products such as panels, decorative strips and decorative profiles
- Bonding of plastics such as cable ducts and skirting boards made of PVC
- Bonding of decorative and insulating boards, e.g. made of polystyrene
- Bonding of stucco and ceiling profiles
- Bonding of gypsum plaster boards
- Bonding of stone, also natural stone, ceramic tiles
- Bonding of skirt boards made of wood or PVC
- Bonding of mineral substrates e.g. concrete
- Not suitable for PE, PP, PA, PTFE etc.

Notice:
- With P85 and P340 we also offer mounting adhesives on base of PU
- With M500, M501 and M540 we also offer hybrid-based mounting adhesives

Please observe the technical and material safety data sheets.
**OTTOCOLL® M 500**

**The water-resistant hybride adhesive/sealant**

Practically universal, primer-free adhesion - even when in contact with water

OTTOCOLL® M 500 has an outstanding adhesion to nearly every kind of substrate such as wood, glass, metal (e.g. aluminium, anodized metals, brass, copper), hard PVC, brick, ceramic and natural stone, making it ideal for both indoor and outdoor use.

**Characteristics:**

- Adhesive/sealant based on silaneterminated polymers (hybride)
- Very strong primerless adhesion on countless surfaces even in case of contact with water
- Excellent weathering-, ageing- and UV resistance
- For interior and exterior use
- Cures quickly even in thick layers
- Elastic - reduces stress on bonded parts
- High mechanical strength - extremely resistant against notches, splits or tears
- Almost odourless
- Good chemical resistance and temperature stability
- Contains no solvents, isocyanates and silicone
- Very good paintability according to DIN 52452

**Fields of application:**

- Elastic bonding of many different materials, such as wood, glass, metal (aluminium, anodised aluminium, brass, copper etc.), rigid and soft PVC, bricks and tiles
- Elastic bonding and sealing of automotive engineering, wagon and container building, machine and apparatus engineering, air-conditioning and ventilation systems, shipbuilding
- Wide variety of applications in construction industry (stairs etc.)
- Bonding of lacquered and enamelled glass
- Compatible with natural stone

**Standards and tests:**

- Meets the EU food regulations for plastic materials and is therefore suitable for direct contact with food

Please observe the technical and material safety data sheets.

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**OTTOCOLL® M 501**

**The transparent hybride-adhesive**

Practically universal, primer-free adhesion - even when in contact with water

OTTOCOLL® M 501 has an outstanding adhesion to nearly every kind of substrate such as wood, glass, metal (e.g. aluminium, anodized metals, brass, copper), hard PVC, brick, ceramic and natural stone, making it ideal for both indoor and outdoor use.

**Characteristics:**

- Adhesive based on silane-terminated polymers (hybrid)
- Excellent adhesion on numerous substrates without primers – even when exposed to water
- Excellent weathering and ageing resistance
- For interior and exterior use
- Cures quickly even in thick layers
- Tough elasticity for stress-equalising bonding and dynamic loads
- Very high mechanical strength therefore high resistance to notches, tension and tearing
- Almost odourless
- Outstanding chemical resistance and temperature stability
- Contains no solvents, isocyanates, silicone
- Excellent compatibility with paints according to DIN 52452

**Applications:**

- Stress-equalising bonding of very varied materials, such as wood, glass, metals (e.g. aluminium, eloxal, brass, copper), hard PVC, soft PVC, bricks, tiles
- Body work and vehicle construction, wagon and container construction, metal construction and apparatus engineering, air conditioning technology and ship building
- Wide variety of building applications (stairs etc.)
- Compatible with natural stone

Please observe the technical and material safety data sheets.
OTTOCOLL® Allflex

The ultra flexible adhesive

Wood, glass, metal, plastics, brick, tiles - that are the strengths of OTTOCOLL® Allflex. It adheres on a lot of different kinds of substrates. Indoors and outdoors OTTOCOLL® ALLFLEX lives up to its promise. Also when its painted or varnished.

Characteristics:
Adhesive based on silane-terminated polymers
Can be used for virtually any purpose
For indoor and outdoor use
Flexible and tension equalizing
Can be painted and varnished

Fields of application:
For building, conversion, assembly
For bonding, mounting, repairing materials such as wood and wooden materials, metals, (aluminium, stainless steel, copper etc.), ceramics, brick, plastics (hard PVC, GRP etc.), insulating materials (polystyrene, PU etc.) fireproof building boards (gypsum board etc.)

Notes:
Not suitable for bonding butt joints of gypsum fibre boards

OTTOCOLL® P83

The PU adhesive/sealant

Lasting elasticity and stress compensating
OTTOCOLL® P83 stays durably elastic when cured and is perfectly suited for the sealing and stress compensating bonding of different kinds of materials within one workstep.

Characteristics:
Non-sag adhesive/sealant based on PU
Cures practically shrink-free without foaming
Elastic and stress-compensating
Non-corrosive to metals, silicone-free
Very good paintability (acc. to DIN 52452)
Grindable and paintable
Extremely high resistance to impact load, shock load and peeling load
Very good adhesion to many types of materials such as plastics, metals, wood and derived wood products, or concrete
Resistant to water, salt water, weak acids and alkaline solutions, aqueous cleaning agents, temporarily even to petrol and mineral oil

Fields of application:
Vibration/movement-compensating bonding and sealing
Very suitable for air-conditioning and ventilation construction
Sealing in vehicle, caravan and container construction
Sealing car-body joints

Please observe the technical and material safety data sheets.
**OTTOCOLL® P84**

The premium PU adhesive

**All-purpose**
OTTOCOLL® P84 is a tested adhesive complying with the high requirements of DIN EN 204-D4 and DIN EN 14257 (WATT 91) of weather resistant bonding and bonding strength of sealants for wood and derived timber products, making OTTOCOLL® P84 verifiably suitable for the manufacturing of garden furniture and window edges as well as for plywood in non-load bearing elements.

**Characteristics:**
- Flowable adhesive based on PU
- Weather-resistant
- Frost and temperature resistant from -30 °C to +100 °C
- Non-corrosive
- Low viscosity

**Fields of application:**
- Manufacturing garden furniture and window edges
- Manufacturing laminated wood for non-load bearing parts
- Manufacturing sandwich and laminated elements, e.g. for partition walls, door elements, exterior walls for prefabricated houses, vehicle superstructures etc.
- Producing finger joints

**Standards and tests:**
- Tested according to DIN EN 204-D4 - Weather-resistant bonding - at the ift-Institut für Fenstertechnik, 83026 Rosenheim, Germany
- Tested according to DIN EN 14257 (WATT 91) - Bonding strength of sealants for wood and derived timber products at the ift-Institut für Fenstertechnik, 83026 Rosenheim, Germany

Please observe the technical and material safety data sheets.

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**OTTOCOLL® P85**

The premium PU mounting adhesive

**Extremely high bond strength**
Due to its high bond strength OTTOCOLL® P85 replaces mechanical connection methods and allows invisible connections of different materials without any disturbing screws, rivets or weld seams.

**Characteristics:**
- Non-sag adhesive based on PU
- Universally applicable
- Frost and temperature resistant from -30 °C to +100 °C
- Applicable with pinpoint accuracy
- Non-corrosive
- Can be grinded, painted and overpainted
- Fast curing and extremely high bond strength
- Neutral odour

**Fields of application:**
- Powerful bonding of wood and derived wood products, e.g. chipboard, plywood, staircase renovation etc.
- Powerful bonding of metals such as aluminium, stainless steel, galvanised steel, copper
- Bonding of stone, natural stone and ceramics
- Bonding of synthetic materials e.g. unplasticized PVC, fibre-reinforced plastics etc.
- Bonding of insulating materials including polystyrene etc.
- Bonding of fireproof panels (fibreboard, plasterboard etc.)

**Standards and tests:**
- Tested according to DIN EN 204-D4 - Weather-resistant bonding - at the ift-Institut für Fenstertechnik, 83026 Rosenheim, Germany
- Tested according to DIN EN 14257 (WATT 91) - Bonding strength of sealants for wood and derived timber products at the ift-Institut für Fenstertechnik, 83026 Rosenheim, Germany

Please observe the technical and material safety data sheets.
**OTTOCOLL® P86**

**The 1-component PU adhesive for corner connections**

**Simple to handle - economical consumption**

OTTOCOLL® P86 is a 1 component PU adhesive which is easy to apply with the usual processing tools and is ready to use. OTTOCOLL® P86 fills cavities optimally due to its slight foaming and is thus economical in consumption.

**Characteristics:**
- Non-sag adhesive based on PU
- Excellent adhesion to metals
- Simple to handle
- Long skin-formation
- Fills cavities optimally - foaming slightly
- Economical in consumption
- Tensile strength after 7 days - approx. 14.000 N (test certificate by the ift)

**Fields of application:**
- Bonding in metal construction
- Weather-resistant bonding of corner connections for metal windows, metal doors and façades as well as conservatories

**Standards and tests:**
- Tensile strength tested at the ift-Institut für Fenstertechnik, 83026 Rosenheim, Germany
- Conform to the requirements of DIN EN 204-D4 for weather-resistant bonding

**Applications:**
- Specifically developed for bonding corners
- General bonding in metal construction
- Weather-resistant bonding of corner connections on metal windows, doors and façades and conservatories
- Also suitable for powerful bonding of very different materials such as wood, metal, plastics, stone etc.

**Standards and tests:**
- Tensile strength tested at the Institute for Window Technology, Ift-83026 Rosenheim, Germany
- Complies with requirements of DIN EN 204-D4 for weather-resistant bonding

Please observe the technical and material safety data sheets.

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**OTTOCOLL® P520**

**The premium 2-component PU adhesive**

**Safe application - extra good adhesion**

When applying OTTOCOLL® P520 an uneven mixture can be totally excluded due to the special twin cartridge with static mixer OTTOCOLL® P520 comes in. In contrast to epoxy and polyester adhesives OTTOCOLL® P520 cures through completely, even in thick layers, and has a very good adhesion thanks to its visco plastic properties.

**Characteristics:**
- Durable polyurethane-based adhesive
- Excellent adhesion on metals
- Safe application because of twin cartridge
- Fast, non-shrink curing even if layers are thick
- Extremely high tensile strength after 24 hours: approximately 14,000 N (ift test certificate)

**Applications:**
- Specifically developed for bonding corners
- General bonding in metal construction
- Weather-resistant bonding of corner connections on metal windows, doors and façades and conservatories
- Also suitable for powerful bonding of very different materials such as wood, metal, plastics, stone etc.

**Standards and tests:**
- Tensile strength tested at the Institute for Window Technology, Ift-83026 Rosenheim, Germany
- Complies with requirements of DIN EN 204-D4 for weather-resistant bonding

Please observe the technical and material safety data sheets.
Extremely high adhesion properties
Corner connections bonded with OTTOCOLL® P 86 and OTTOCOLL® P 520 do withstand exceptionally high loads. In addition to the extremely high adhesive properties both OTTOCOLL® P 86 and OTTOCOLL® P 520 stay permanently visco plastic and are thus able to follow the deformation of jointing components which arrive due to, for example, variations in temperature.

Excellent adhesion to metal substrates
Both OTTOCOLL® P 86 and OTTOCOLL® P 520 stand out by having a very good adhesion on different kinds of substrates like for example aluminium, anodized aluminium, brass, copper, zinc coated and stainless steel. OTTOCOLL® P 86 and OTTOCOLL® P 520 are also suitable for a permanent bonding of wood and derived timber products.

Paint - varnish
OTTOCOLL® P 86 and OTTOCOLL® P 520 can be painted and varnished.

Notice
OTTOCOLL® P 86 and OTTOCOLL® P 520 are not suitable for the bonding of glass, PE, PP, PA, PTFE nor for substrates containing bitumen, wax or oil.

Useful accessories for the adhesion of corner connections

**OTTOSEAL® A 225**
is suitable for the application in metal constructions, having a good adhesion for the sealing of profile batches and mitre cuts. OTTOSEAL® A 225 is a solvent free and low odour sealant. When fresh it can easily be removed using water.

**OTTO Cleaner F**
convinces, besides having a pleasant odour, by having good detergent properties and by removing non-cured adhesives easily. OTTO Cleaner F is compatible with the established powder-coatings, it dries fast without leaving any residues.

Please observe the technical and material safety data sheets.
**OTTOCOLL® P 270**

**Dispersion-based solvent-free foil adhesive**

**Durable adhesive properties**

OTTOCOLL® P270 is a ready-to-use elasto-plastic adhesive based on an aqueous dispersion and on resin ester and is solvent-free.

**Characteristics:**
- Ready-to-use, elastoplastic adhesive based on an aqueous dispersion
- Solvent-free, strongly adhesive, resilient, compensates surface irregularities
- Durable adhesive properties
- Good ageing stability
- Follows the movement of the building
- Can be used without a pressure lath

**Applications:**
- Airtight connector interface of vapour-retarder and vapour seals in compliance with DIN 4108
- Fixation of the vapour barrier
- Forming the compensating loop

**Notice**

For the bonding of vapour barriers we recommend an adhesive film tape for the application around the penetrations (such as OTTOAPE D25I) and an adhesive film tape for overlappings of moisture and vapour barriers (such as OTTOTAPE E40I).

Please observe the technical and material safety data sheets.
**OTTOCOLL® Rapid**

*The ultra strong power adhesive*

**Universally applicable and always ready**
OTTOCOLL® Rapid is more than just a superstrong power adhesive. As a reliable partner of the craft it takes over all different kinds of tasks on the construction and assembly sites: bonding, fixing, installing, repairing, backfilling of metal, wood, stone, brick, Styropor® and plastics like PVC. An allrounder that nobody wants to do without.

**Characteristics:**
- Non-sag adhesive based on polyurethane
- Extremely fast curing
- Extremely strong bonding
- Short pressing and fixing times
- Almost universally applicable
- Odourless
- Non-corrosive

**Fields of application:**
For construction, interior work, assembly
For bonding, assembling, repairing of materials such as wood and derived timber products, metals (aluminium, stainless steel, copper etc.), stone, natural stone, ceramics, tiles, brick, plastics (PVC unplasticised, GFK etc.), insulating materials (styrene, PU, etc.), fireproof panels (gypsum plasterboard etc.)
Attention, do not use for bonding of butt joints of gypsum fibre boards

**Standards and tests:**
Conform to the requirements of DIN EN 204-D4 for weather-resistant bonding
Conform to the requirements of DIN EN 14257 (WATT 91) for temperature-resistant bonding

Please observe the technical and material safety data sheets.

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**OTTOCOLL® P 410**

*The special PU adhesive for sandwich elements*

**Long processing time, fast curing**
OTTOCOLL® P 410 is very well suited for the bonding of large surface elements such as at hand in the construction of prefab houses or caravans. The fast curing property of OTTOCOLL® P 410 only require short pressing and fixing times allowing an efficient fabrication an a high productivity.

**Characteristics:**
- Flowable adhesive based on polyurethane
- Long processing time
- Solvent-free
- Weather-resistant
- Non-corrosive
- Low viscosity
- Fast curing thus short pressing and fixing times
- Ideally suitable for automated processing via dosing equipment

**Fields of application:**
Manufacturing sandwich elements, e.g. for doors, partition walls, façade elements, etc.
Very well suited for the bonding of large-surface elements, e.g. for prefabricated houses, caravan and container construction
Window frames

**Standards and tests:**
Conform to the requirements of DIN EN 204-D4 for weather-resistant bonding
Conform to the requirements of DIN EN 14257 (WATT 91) for temperature-resistant bonding of wood and timber products

Please observe the technical and material safety data sheets.
<table>
<thead>
<tr>
<th>Adhesive</th>
<th>Basis</th>
<th>Texture</th>
<th>Tooling time</th>
<th>Tooling temperature</th>
<th>Temperature resistance</th>
<th>Storage</th>
<th>Shelf life</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTTOCOL® TopFix (A 265)</td>
<td>1-component acrylate</td>
<td>pasty</td>
<td>ca. 10 min.*</td>
<td>+5 °C to +35 °C</td>
<td>-20 °C to +80 °C</td>
<td>do not exceed 30 °C, frost free, cool and dry</td>
<td>12 months from date of manufacture, in closed receptable</td>
</tr>
<tr>
<td>OTTOCOL® M500/M501</td>
<td>1-component-STP (hybrid)</td>
<td>pasty</td>
<td>20 min.*</td>
<td>+5 °C to +40 °C</td>
<td>-40 °C to +90 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>min. 9 months at 23°C, 50% RH</td>
</tr>
<tr>
<td>OTTOCOL® Allflex (M 540)</td>
<td>1-component-STP (hybrid)</td>
<td>pasty</td>
<td>15 min.*</td>
<td>+5 °C to +40 °C</td>
<td>-40 °C to +90 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>min. 9 months at 23°C, 50% RH (in closed receptable)</td>
</tr>
<tr>
<td>OTTOCOL® P83</td>
<td>1-component PU</td>
<td>pasty</td>
<td>50 min.*</td>
<td>+5 °C to +35 °C</td>
<td>-40 °C to +80 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>12 months from date of manufacture, in closed receptable</td>
</tr>
<tr>
<td>OTTOCOL® P84</td>
<td>1-component PU</td>
<td>free-flowing</td>
<td>20 min.*</td>
<td>not below +5 °C</td>
<td>-30 °C bis +80 °C, for a short time only up to +100 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>min. 12 months from date of manufacture at +15°C to +20°C</td>
</tr>
<tr>
<td>OTTOCOL® P85</td>
<td>1-component PU</td>
<td>pasty</td>
<td>5 - 10 min. (coloured)* 20 min. (translucent)*</td>
<td>not below +5 °C</td>
<td>-30 °C bis +80 °C, for a short time only up to +100 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>12 months from date of manufacture at +15°C to +20°C</td>
</tr>
<tr>
<td>OTTOCOL® P86</td>
<td>1-component PU</td>
<td>pasty</td>
<td>20 min.*</td>
<td>not below +5 °C</td>
<td>-30 °C bis +80 °C, for a short time only up to +100 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>min. 12 months from date of manufacture at +15°C to +20°C</td>
</tr>
<tr>
<td>OTTOCOL® P270</td>
<td>1-component aqueous dispersion</td>
<td>pasty</td>
<td>15 - 20 min.*</td>
<td>+5 °C to +35 °C</td>
<td>-20 °C to +80 °C</td>
<td>+5 °C to +30 °C</td>
<td>12 months</td>
</tr>
<tr>
<td>OTTOCOL® Rapid (P 340)</td>
<td>1-component PU</td>
<td>pasty</td>
<td>4 min.*</td>
<td>not below +5 °C</td>
<td>-30 °C bis +80 °C, for a short time only up to +100 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>min. 9 months from date of manufacture at +15°C to +20°C</td>
</tr>
<tr>
<td>OTTOCOL® P410</td>
<td>1-component PU</td>
<td>free-flowing</td>
<td>80 min.*</td>
<td>not below +5 °C</td>
<td>-30 °C bis +80 °C, for a short time only up to +100 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>min. 9 months from date of manufacture at 15°C to 20°C</td>
</tr>
<tr>
<td>OTTOCOL® P520</td>
<td>2-component PU</td>
<td>pasty</td>
<td>45 Min.*</td>
<td>not below +5 °C</td>
<td>-30 °C bis +80 °C, for a short time only up to +100 °C</td>
<td>don’t exceed 30 °C when possible, protect from humidity</td>
<td>min. 12 months from date of manufacture at 15°C to 20°C</td>
</tr>
</tbody>
</table>

Skinforming time and potlife can be individually adjusted
Professional accessories by OTTO.

**Hand-operated Gun H 36**
Durable and highly impact-resistant plastic hand operated gun, very light. With closer for sliding sleeve, smooth driving rod and a sleeve for 300/310 ml cartridges. Automatic pressure relief.

**Hand-operated Gun H 400 (Cab)**
Hand-operated gun with alu cylinder for foil bags up to 400 ml. Ladder hook separately available.

**Compressed Air Gun P 620 (COX)**
Compressed air gun with an ergonomically designed gun handle. Alu cylinder for foil bags up to 620 ml.
<table>
<thead>
<tr>
<th>OTTO Manual for Professionals</th>
<th>OTTO Professional Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>How to perfectly seal floor coverings</td>
<td>How to make perfect joints in natural stone</td>
</tr>
<tr>
<td>How to make a perfect job of mould prevention</td>
<td>How to make perfect joints</td>
</tr>
<tr>
<td>How to seal and bond perfectly – from A to Z</td>
<td>How to waterproof wetrooms perfectly</td>
</tr>
<tr>
<td>Photovoltaic modules perfectly sealed &amp; bonded</td>
<td>Solar collectors perfectly sealed &amp; bonded</td>
</tr>
</tbody>
</table>

For your notes.

Further OTTO professional guides.
Please send your orders by fax or e-mail to ensure fast and correct processing. Thank you in advance!

For further information please contact: