

OTTOCOLL® M 530

HiSpeed



Technical Datasheet

1-component hybrid polymer STP adhesive

For indoor and outdoor application

Characteristic:

- **Handling strength after 20 minutes and functional strength after 3 hours**
Fast further work possible with thin adhesive layer and diffusion-open materials
- **High final strength**
Resistant to high mechanical stresses
- **Also adheres to moist substrates**
No lost working time due to drying of the substrates
- **Elastic**
Compensates movements in higher adhesive layers
- **Free of isocyanates**
Harmless to health
- **Silicone-free**
- **Compatible with natural stone**
Does not cause greasy deposits on natural stones

Fields of application:

- Bonding of stone, natural stone and ceramic
- Bonding of window sills, floor strips, decorative strips and stairs
- For elastic bonding and mounting of various materials such as wood, wood-based materials, plastics, metals and mineral substrates

Standards and tests:

- French VOC-emission class A+
- Classification according to building certification systems, see the sustainability data sheet
- Declaration in "baubook" Austria
- EMICODE® EC 1 Plus - very low emission

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.

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

For bonding or sealing of glass which is exposed to UV-radiation we recommend the use of our high quality silicone adhesives / sealants such as OTTOSEAL® S 110 / S 120 (for sealing of glazing rebate), OTTOSEAL® S 10 (e.g. for bonding), OTTOSEAL® S 7 (for weathersealing) or OTTOCOLL® S 81 (for bonded windows).

For bonding or sealing of transparent plastic material, such as acrylic glass, exposed to UV-radiation we recommend our silicone sealant OTTOSEAL® S 72.

Not suitable for sealing / bonding copper upon impact of UV-radiation and temperature.

The colours of the sealant may be affected by environmental influences (high temperature, chemicals, vapours, UV-radiation). This does not affect the characteristics of the product.

Technical properties:

Skin-forming time at 23 °C/50 % RH [minutes]	~ 5
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 2
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,4
Shore-A-hardness according to ISO 868	~ 67
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm²]	~ 2,4
Tensile expansion according to ISO 37, S3A [%]	~ 300
Tensile strength according to ISO 37, S3A [N/mm²]	~ 3,6
Temperature resistance from/to [°C]	- 40 / + 90
Shelf life at 23 °C/50 % RH for cartridge [months]	12 (1)
Maximum permissible tension (for bonds without load transfer) for designing the area to be bonded [N/mm²] 0,001	

1) from date of manufacture

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. 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.

Acrylic glass/PMMA (Plexiglas®, etc.)	+
Acrylic bathroom surfaces (e. g. bath tubs)	+
Aluminium	+
Aluminium anodized	+
Concrete	+
Stainless steel	+
Fibre cement	+
Glass	+
Wood, painted (solvent systems)	+
Wood, painted (aqueous systems)	+
Wood, varnished (solvent systems)	+
Wood, varnished (aqueous systems)	+
Wood, untreated	+
Ceramic, glazed	+
Ceramics, unglazed	+
Copper	+
Melamine formaldehyde resins (e. g. Resopal®)	+
Natural stone	+
Polypropylene	-
Polycarbonate	+
Plaster	+
PVC unplasticized	T
Zinc, galvanised iron	+

+ = good adherence without primer

- = not suitable

T = Test/pilot test advised

Application information:

In order to achieve good adhesion and good mechanical properties air entrapment must be avoided. Curing time can be reduced by humidification and increased temperatures. For the full-surface bonding of steam-tight substrates the adhesive should be moistened. Our product can be overcoated with paint or varnish. The compatibility between the coating and our product has to be checked before the application by the user/processor - possibly under production conditions. Our OTTO application technology will gladly support you non-committally. If, in exceptional cases, after successful compatibility test our product is coated over the entire surface, this coating must also be able to follow the elastic movement of the sealant. Otherwise crack formations in the coat of paint or optical impairments may occur. 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 diminution of durability or a change of material characteristics may arise.

Packaging:

	310 ml cartridge
white	M530-04-C01
Packaging unit	20
Pieces per pallet	1200

Safety precautions:

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

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 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 conclusively. 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>