Technical datasheet

OTTOCOLL® M 530 HiSpeed

SPECIAL

The hybrid adhesive with very fast bonding

1-component hybrid polymer STP adhesive | For indoor and outdoor application | M 530

Characteristics

- Handling strength after 20 minutes and functional strength after 3 hours - Fast continued work possible with thin adhesive layer and diffusion-open materials
- High final strength - Resistant to high mechanical stresses
- Compatible with natural stone - Does not cause greasy deposits on natural stones
- Also bonding to damp surfaces
- Elastic - Compensates movements
- Can be painted and varnished – please observe application instruction in Technical Data Sheet
- Silicone-free
- Free of isocyanates

Fields of application

- Bonding of stone, natural stone and ceramic
- 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

- Meets the requirements for fire behavior according to EN 13501: Class E
- EMICODE® EC 1 Plus - very low emission
- French VOC-emission class A+
- Declaration in "baubook" Austria

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, type 3 [N/mm²]	~ 2,4
Tensile expansion according to ISO 37, type 3 [%]	~ 300
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 3,6
Temperature resistance from/to [°C]	- 40 / + 90
Shelf life at 23 °C/50 % RH for cartridge [months]	18 [1]

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OTTO CHEMIE
SEALING & BONDING

Maximum permissible tension (for bonds without load transfer) for designing the area to be bonded [N/mm²]	0,001

1) from production

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

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.
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	+
Acrylic bathroom surfaces (e. g. bath tubs)	+
Aluminium	+
Aluminium eloxiert	+
Concrete	+
Stainless steel	+
Fibre cement	+
Glass	+
Wood, painted (solvent systems)	+
Wood, painted (aquaeous systems)	+
Wood, varnished (solvent systems)	+
Wood, varnished (aquaeous systems)	+
Wood, untreated	+
Ceramic, glazed	+
Ceramics, unglazed	+
Copper	+
Melamine resin panels	+
Natural stone	+
Polypropylene	-
Polycarbonate	+
Plaster	+
PVC unplasticized	T
Zinc, galvanised iron	+

+ = good adherence without primer
- = not suitable
T = Test/pilot test advised

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.

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 succesful 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.
Paints, lacquers, plastics and any other coatings must be compatible to the adhesive/sealant. Materials with alkaline contents may cause interactions in the form of discolouration.
Pure mineral paints (e.g. based on potassium silicate or lime) are not suitable for painting over the entire surface due to the brittleness of the paint.
Depending on the climatic conditions and the type of painting, the coating materials can be reworked from about 1 hour.
In contact with oxidatively curing paints (e.g. alkyd resin paints) drying and curing can be delayed or prevented.
We recommend preliminary tests.
Coatings and their evaporation can lead to discolouration of the adhesive/sealant.
Discolouration of coatings due to interaction with the adhesive/sealant is not excluded.
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
◯ white	M530-04-C01
Pieces per packaging unit	**20**
Pieces per pallet	**1200**

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.
After curing, the product is odourless.

Disposal

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

Brand information

EMICODE® is a registered trademark of GEV e. V. (Düsseldorf, Germany)

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.