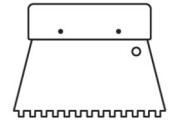


OTTOCOLL® M 595 SPECIAL

The hybrid-adhesive for full-surface bonding



1-component hybrid polymer STP adhesive

For indoor and outdoor application

M 595



Characteristics

- ▶ Applicable by spatula - Apply quickly and easily with a toothed spatula
- ▶ Compensates for unevenness in rough bonding surfaces
- ▶ Very good adhesion on many materials - Can be used on many materials without pretreatment
- ▶ 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 wall cladding panels indoors, such as in sanitary, kitchen and catering areas and in cold storage rooms
- ▶ Bonding and mounting different materials, such as wood, wooden materials, plastics, metals and mineral substrates
- ▶ Bonding of OTTOFLEX® sealing strip / sealing and decoupling strip in the overlapping area and accessories such as sealing tape, corner tape and sealing sleeves (according to the requirements of ETAG 022 and tested according to AbP principles)

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
- ▶ Suitable for applications according to IVD instruction sheet no. 30+35 (IVD = German industry association sealants)
- ▶ Tested in conjunction with OTTOFLEX® sealing strip / sealing and decoupling strip to issue a general building inspection certificate

Technical properties

Skin-forming time at 23 °C/50 % RH [minutes]	~ 30 - 60
Curing in 24 hours at 23 °C/50 % RH [mm]	~ 3
Loadable after [h]	48
Processing temperature from/to [°C]	+ 5 / + 40
Viscosity at 23 °C	pasty
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,6
Coverage of adhesive [g/m²]	~ 750 ¹
Shore-A-hardness according to ISO 868	~ 35
Tensile expansion according to ISO 37, type 3 [%]	~ 200
Tensile strength according to ISO 37, type 3 [N/mm²]	~ 1,3
Temperature resistance from/to [°C]	- 40 / + 90

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OTTO
CHEMIE

SEALING & BONDING

Shelf life at 23 °C/50 % RH for buckets [months] 12 ²

Shelf life at 23 °C/50 % RH for foil bags [months] 12 ²

1) Equates 500 ml with toothed spatula B3

2) 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.

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.

For full-surface bondings on substrates, for which priming is recommended, a sufficient stability of the connection may be achieved even without primer due to the size of the substrate (Preliminary tests are recommended).

Acrylic glass/PMMA	1217
Aluminium	+
Aluminium anodized	+
Aluminium powder-coated	T / 1101
Aluminium composite panels	+
Concrete	+ / 1225 / OTTOFLEX® Tiefengrund ¹
Stainless steel	+ / 1216
Epoxid resin coating	+ / 1216
Gypsum fibre board	+ / OTTOFLEX® Primer ¹
Gypsum plasterboards (standard)	+ / OTTOFLEX® Primer ¹
Gypsum plasterboards (impregnated)	+ / OTTOFLEX® Primer ¹
Gypsum plasterboards (fire resistant)	+ / OTTOFLEX® Primer ¹
Gypsum plasterboard with wet room filler	OTTOFLEX® Primer ¹
Gypsum plasterboard with dry room filler	+ / OTTOFLEX® Primer ¹
Glass	+
Wood, painted (solvent systems)	+ / 1226
Wood, painted (aqueous systems)	+ / 1227
Wood, varnished (solvent systems)	+ / 1227
Wood, varnished (aqueous systems)	+ / 1227
Wood, untreated	T ²
Ceramic, glazed	+
Ceramics, unglazed	+ / 1216
Copper	+ ³
Brass	+ ³
Natural stone / marble	-
OSB boards (coarse chipboard)	+ / OTTOFLEX® Primer ¹
OTTOFLEX Sealing Strip	+
OTTOFLEX Slurry Seal Coating	OTTOFLEX® Adhesive primer / OTTOFLEX® Deep primer ¹
OTTOFLEX Protective Coating	+ ¹
Polyester	+ / 1216
Cellular concrete	+ / 1105 / 1225 / OTTOFLEX® Deep primer ¹
Plaster	+ / 1105 / 1225 / OTTOFLEX® Deep primer ¹
PVC unplasticized	+ / 1227
PVC-soft-foils	+ / 1217
Chipboards	+ / OTTOFLEX® Primer ¹
Tinplate	+ / 1216
Cement fibre boards (interior)	OTTOFLEX® deep primer diluted 1:1 with water ¹

Zinc, galvanised iron +

- 1) Observe drying time
- 2) Upon high exposure to water please contact our Technical Department.
- 3) See "Important information"

+ = 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.

Not suitable for bonding façade panels in exterior areas.

For UV-loaded bonds/seals of glass, we recommend the use of a high-quality silicone adhesive/sealant.

For UV-loaded bonds/seals of transparent plastics such as acrylic glass we recommend the use of a high-quality silicone adhesive/sealant.

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

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.

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.

Fix the substrates, which are to be bonded, until the adhesive is completely cured.

For full-surface application the size of the notched trowel has to be selected accordingly, so that there is enough adhesive and both substrates are sufficiently covered with adhesive after the assembly.

Curing time can be reduced by humidification and increased temperatures.

For the full-surface bonding of moisture-impermeable material and for the acceleration of the curing process illumination is necessary.

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.

Close opened containers again after use. If a skin has formed on the adhesive, it must be completely removed before use (do not stir in!).

Packaging

	580 ml aluminium foil bag	5 kg plastic pail (minimum purchase 8 units)
○ white	M595-08-C01	M595-41-C01
Pieces per packaging unit	20	1
Pieces per pallet	880	54

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.