

SPECIAL

OTTOCOLL®

M 595

Technical Datasheet



## 1-component hybrid polymer STP adhesive

For indoor and outdoor application

### Characteristic:

- **Applicable by spatula**  
Apply quickly and easily with a toothed spatula
- **Fills in unevenness**  
Possible for rough surfaces. Sound-absorbing effect by filling the cavities
- **Very good adhesion on many materials**  
No pre-treatment required
- **Also bonding to damp surfaces**  
No lost working time due to drying of the substrates
- **Elastic**  
Compensates movements
- **Silicone-free**
- **Free of isocyanates**  
Harmless to health

### 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

### Standards and tests:

- EMICODE® EC 1 Plus - very low emission
- Suitable for applications according to IVD instruction sheet no. 30+35 (IVD = German industry association sealants)
- French VOC-emission class A+
- Declaration in "baubook" Austria
- Classification according to building certification systems, see the sustainability data sheet

### 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.

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
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 date of manufacture

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® Deep Primer (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

#### Application information:

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
<b>Packaging unit</b>	<b>20</b>	<b>1</b>
<b>Pieces per pallet</b>	<b>880</b>	<b>54</b>

\* Minimum order quantity 5 kg pail = 8 pieces

#### 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>

