

# SILICONE TAPES



Quality-  
Products



Your **expert** for **bonding** and **sealing**

[www.ego.de](http://www.ego.de)

# SILICONE TAPES





	Material basis		Special characteristics					Spec. application cases				VOC		
	HTV silicone rubber	Silicone, neutral (oxim) curing	Large variety of colours and dimensions	Elastic	UV-resistant	Surface structure	Odorless	Connection and expansion joints	Damaged joints in prefabricated component construction	Outdoor window connection joints	Glazed facades, glazing surfaces	EMICODE EC1 Plus	AgBB	French VOC class A+
EGOSIL TAPE 960	✓		✓	✓	✓		✓	✓		✓				
EGOSIL TAPE 980	✓		✓	✓	✓	✓	✓	✓	✓					
EGOSIL TAPE 970	✓		✓	✓	✓		✓	✓	✓	✓				
EGOSIL Adhesive		✓		✓	✓			✓	✓	✓	✓	✓	✓	
EGOSIL PROFILE	✓		✓	✓	✓		✓	✓		✓			✓	

## EGOSIL TAPE 960

SMOOTH

## Areas of application

Building construction joint

## Eigenschaften



## Certificates

Nr. 4; 9; 24; 28;  
29; 31; 35

Thickness	Width	Order number
1,5 mm	40 mm	6961040..
1,5 mm	50 mm	6961050..
1,5 mm	60 mm	6961060..
1,5 mm	80 mm	6961080..
1,5 mm	100 mm	6961100..
1,5 mm	120 mm	6961120..
1,5 mm	140 mm	6961140..
1,5 mm	160 mm	6961160..
1,5 mm	180 mm	6961180..
1,5 mm	200 mm	6961200..
metres/box		25 m/reel

Other dimensions on request

EGOSIL TAPE 960 elastomer joint tape according to IVD leaflet no. 4 and VOB/DIN 18349 is a prefabricated, permanently elastic, solvent-, plasticiser- and chlorine-free, high-temperature curing silicone rubber tape for sealing of joints in building construction, particularly for repair of damaged joint seals in prefabricated component construction.

EGOSIL TAPE 960 is a single-colour product with smooth tape surface. It can be produced in any colours based on the order - similar to RAL or NCS colour chart. The elastomer joint sealing tape is part of a tested sealing system, which includes the adhesive/sealant EGOSIL Adhesive and the primer EGO PRIMER FDF. It is excellently suited for outdoor wall joints, building disconnection joints, connection joints between various structural elements and building materials.

EGOSIL Adhesive	600 ml foil bag
transparent	330370321
(pcs./box)/(boxes./pal.)	20 pcs./40 box

## EGOSIL TAPE 970

GROOVE

## Areas of application

Building construction joint

## Characteristics



## Certificates

Nr. 4; 9; 24;  
28; 29; 31;  
35

	Thickness	Width	Order number
signal white	1,5 mm	46 mm	697004610 *
signal white	1,5 mm	60 mm	697006110 *
metres/box			25 m/reel

\* The marked item numbers are available in deviating minimum purchase quantities.

EGOSIL TAPE 970 connection joint tape is a prefabricated, high-temperature cured, permanently elastic silicone rubber tape with a pre-profiled kink point for sealing of connection joints along angles or corners of structural elements. The tape is part of a sealing system, which includes the primer EGO PRIMER FDF and the adhesive EGOSIL Adhesive. It is excellently suited for connection joints between various structural elements and building materials, such as window connection joints with butted or inside stops. Special profiled and colours on request.

# SILICONE TAPES

Thickness	Width	Order number
2,0 mm	40 mm	6982040..
2,0 mm	50 mm	6982050..
2,0 mm	60 mm	6982060..
2,0 mm	80 mm	6982080..
2,0 mm	100 mm	6982100..
2,0 mm	120 mm	6982120..
2,0 mm	140 mm	6982140..
2,0 mm	160 mm	6982160..
2,0 mm	180 mm	6982180..
2,0 mm	200 mm	6982200..
metres/box		25 m/reel

Other dimensions on request!

**EGOSIL TAPE 980** elastomer joint tape according to IVD leaflet no. 4 and VOB / DIN 18349 is a prefabricated, permanently elastic, solvent-, plasticiser- and chlorine-free, high-temperature curing silicone rubber tape for sealing of joints in building construction, particularly for repair of damaged joint seals in prefabricated component construction. **EGOSIL TAPE 980** is multi-coloured with a textured surface. It can be produced in any colours based on the order - similar to RAL or NCS colour chart. The elastomer joint sealing tape is part of a tested sealing system, which includes the adhesive/sealant **EGOSIL Adhesive** and the primer **EGO PRIMER FDF**.

It is excellently suited for outdoor wall joints, building disconnection joints, connection joints between various structural elements and building materials.

EGOSIL Adhesive	600 ml Foil bag
transparent	330370321
(pcs./box) / (boxes/pal.)	20 pcs. / 40 box

	Dimensions
black	Object-based according to information by the customer. Bonding in the area of the bonding zones only with tested silicone adhesives / sealants acc. to manufacturer's specifications.
Special colours on request.	

**EGOSIL PROFIL** are prefabricated, elastic, cold-bonding sealing and spacing elements that can be produced from high-temperature cured silicone rubber to variable dimensional requirements. The profiles are extremely heat-resistant and remain flexible also at low temperatures.

Sealing profiles for the entire glass and facade construction, to be used in the form of square, rectangular or irregularly shaped spacing, pressure-compensating and sealing profiles for joints in glazed roofs and conservatories, for glazing bite, for connection joints in prefabricated elements, in window and roof areas as well as metal constructions.

## EGOSIL TAPE 980

### STRUCTURE

#### Areas of application

Building construction joint

#### Characteristics



#### Certificates



## EGOSIL PROFILE

#### Areas of application

Glass, facade, metal constructions, roofing

#### Characteristics



#### Certificates



## SYSTEM DESCRIPTION

The certified sealing system includes three variants of elastomer joint tapes made from completely plasticiser-free, UV-resistant, pure silicone rubber with an almost 100% polymer content. As an adhesive, EGOSIL adhesive is used by preference, as a ready-to-use, neutral, single-component silicone sealant, as a transparent product for all tape colours. It vulcanises with air humidity to form an elastic end product under the adhesive areas of the joint tape. The unbonded movement zone of the joint tape covers all damaged areas and absorbs any joint

movements which occur without a problem. Here lies the key advantage of elastomer joint tapes. To improve the adhesive strength, the system includes a primer which can be used depending on the substrate condition. The system solution meets the requirements of the IVD leaflet no. 4 and VOB/C DIN 18349 and is used for sealing new and damaged joints in outer walls.



## PRODUCT RANGE | ELASTOMER JOINT

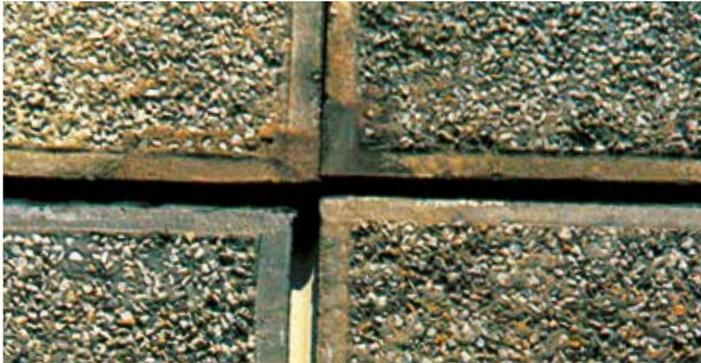
Elastomer joint tapes	surface	colour	reel length	tape thickness x tape width
EGOSIL TAPE 960	smooth	single-colour	25 m, up to 3 reels in the box depending on width	1,5 x 40 - 200 mm
EGOSIL TAPE 970	notched	single-colour	25 m, up to 3 reels in the box depending on width	1,5 x 40, 60, 80 mm
EGOSIL TAPE 980	textured	multicoloured	25 m, up to 3 reels in the box depending on width	2,0 x 40 - 200 mm
Adhesive-/sealant	material	colour	form of delivery	box contents
EGOSIL KLEBER	neutral, 1-component	transparent	600 ml foil bag	20 pcs.
Primer	material system	form of delivery	component substrate	
EGO PRIMER FDF	contains light metal, polymers	0,1 l bottle, 0,5 l can, 5,0 l canister	porous, absorbent substrates, e.g. coatings or concrete	
EGO PRIMER FML	contains light metal, silane	0,1 l bottle, 0,5 l can, 5,0 l canister	dense substrates, e.g. coatings or metal (joint, cornice and roof panels, as well as metal windows and doors)	

# SILICONE TAPES

## JOINT SEALS IN THE FACADE

### The problems and shortcomings in practice:

- damaged joint seals let moisture and rain through
- burst joint edges and joint sides make proper sealing more difficult
- cohesion cracks and adhesion cracks in the joint seal require restoration measures
- joint sides which do not run parallel must be reprofiled with PCC mortar
- undersized joint widths overtax the joint sealant when they move
- insufficient joint depths cannot be sufficiently filled and adequately sealed
- excessively wide joints cannot be sealed in accordance with DIN 18540
- incorrect sealing materials result in edge cracks and excessive strain

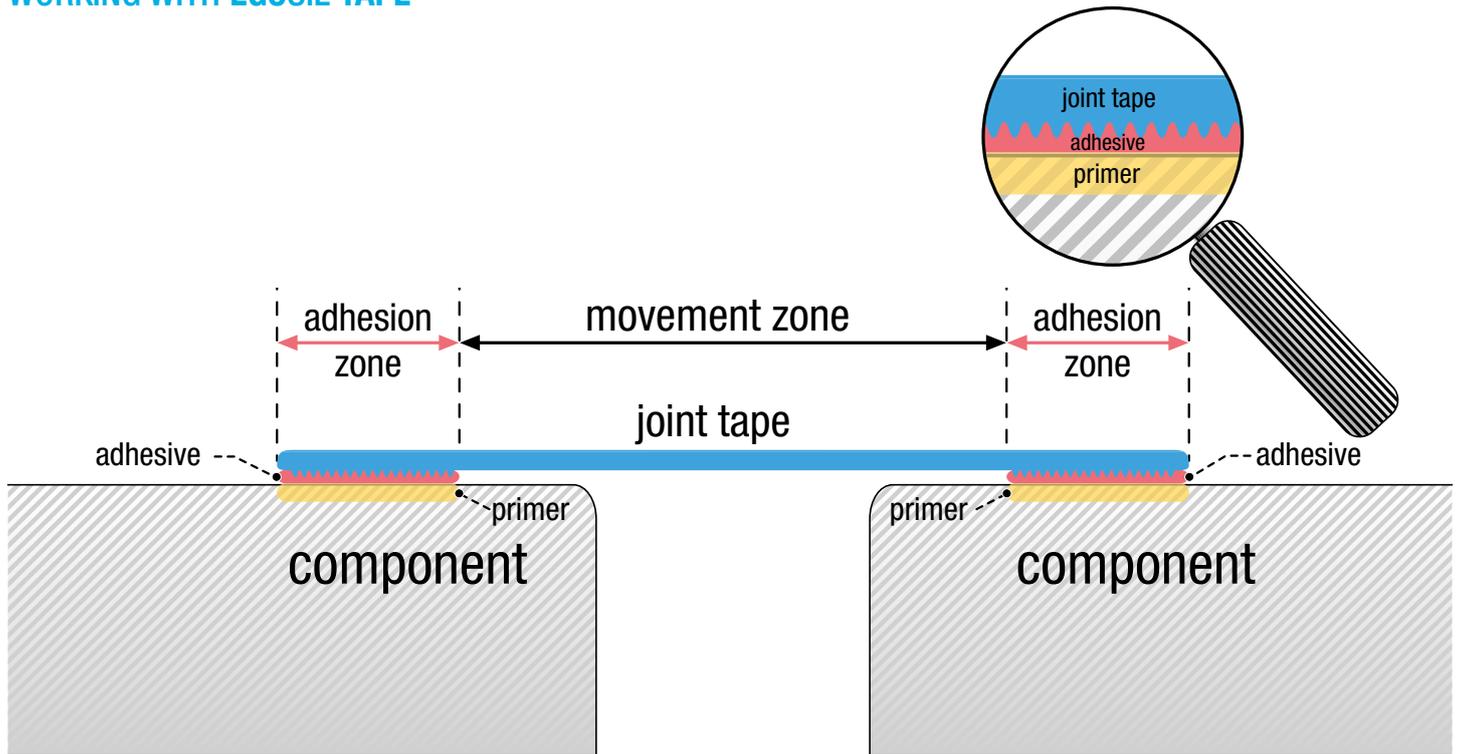


### The solution with EGOSIL TAPE elastomer joint tape

- certified system solution in accordance with the requirements of the IVD leaflet no. 4.
- approved joint seal in accordance with VOB/C DIN 18349
- use of EGOSIL TAPE 960, EGOSIL TAPE 970 or EGOSIL TAPE 980 type elastomer joint tapes
- range with smooth, notched or even textured surface finishes
- variety of colours with more than 50 colours similar to the RAL colour chart to date
- fully UV and weather-resistant materials
- pure unfilled softener-free silicone rubber
- can be retroactively adhered to certified facade coatings



## WORKING WITH EGOSIL TAPE



During preparation for joint sealing with EGOSIL TAPE, the following must be checked and observed:

**Is the component substrate suitable?**

- component moisture not greater than 4 %
- component, air, material temperature not less than +5 °C
- sufficient adhesion surface width must be available

**Is older sealant/sealant tape in the joint?**

- restraints should be avoided
- component movements must be possible
- the new sealant must be compatible with the old sealant

**Is the minimum clear joint width available?**

- ensure the minimum clear joint width according to the joint distance
- where applicable, slice open the joint edges to approx. 5 mm gap

**Is a concrete repair required?**

- see DAfStb guideline
- repair cracks, chips, etc.
- treat rusty steel in accordance with RL-SIB

**Is the joint area coated?**

- check adhesive strength, compatibility, solubility
- completely remove damaged old coating

**Is thermal insulation wanted in the joint?**

- choose the optimal insulation material
- compare the cost and effect of thermal insulation

**Is the available tape width sufficient?**

- take joint offsets, intersections into account

**Is additional component coating planned?**

- check compatibility of the coating with the sealant
- can be used with or without primer
- carry out coating before or after sealing

# SILICONE TAPES

## CARRYING OUT JOINT SEALING WITH EGOSIL TAPE

When carrying out joint sealing with EGOSIL TAPE, the following must be checked and observed:

### Cleaning of the joint sides and joint edges

- remove dust, cement slurry, release agent, loose debris, old coatings, etc.

### Masking of the edges of the joint with masking tape

- as an exterior limit
- to absorb excess adhesive
- to create clean and sealed joint edge zones

### Painting of the bonding surfaces with primer

- choose the primer type depending on the substrate:
- porous substrates, e.g. concrete: EGO PRIMER FDF
- glazed tiles, glass, varnishes: no primer
- dense substrates, e.g. metal: EGO PRIMER FML
- leave to flash off for 30 minutes

### Application of adhesive strips to adhesion zones

- vary the strip thickness depending on the tape width (adhesion zone)
- homogeneous adhesive film thickness under the joint tape  $\geq 1-2$  mm
- observe the skin formation time for the adhesive
- only put on a volume of adhesive according to the skin formation time

### Unrolling, applying and pressing on the joint tape

- the movement zone must remain free of adhesive
- seal the edge zones of the tape flush with the component

### Chamfering and smoothing of the joint tape edges

- carefully skim off excess adhesive from the outside
- smooth edge tones with diluted smoothing agent
- do not apply adhesive residue to the joint tape
- pull the masking tape off the substrate
- remove the masking tape before the end of the skin formation time

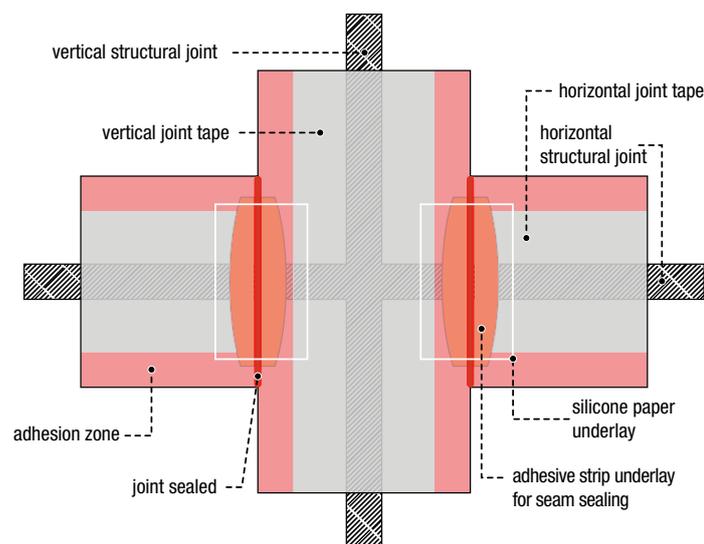
### Finishing and smooting

- resealing and smooting imperfections and final inspection

### Start and end points of the joint tape

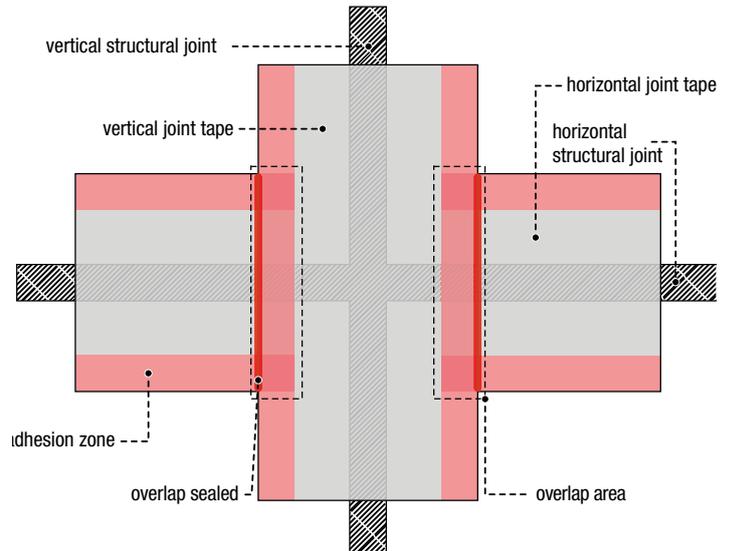
- installation is done from top to bottom
- leave approx. 1 cm protruding at the top so that no water can seep in behind
- carry out joint sealing at the upper roof edge bonded up at least 10 cm below the roof overhang
- do not bond joint tape ends transversely at the lower building edge, the movement zone remains unbonded.
- Seal the upper edge horizontally so that no water can seep in behind
- if the tape is laid in a loop, the width and depth of the loop should be equal

## VARIANTS OF THE JOINT INTERSECTION POINT



### Variant 1:

Butt jointed, non-overlapping joints. The horizontal joint tapes are attached flush to the first vertically laid joint tape with adhesive and the seam is homogeneously sealed. In order to bridge the hollow space in the joint, strips of silicone paper are underlaid at the seams in order to prevent three-sided adhesion to the substrate.



### Variante 2:

Overlapping joints, only overlapping in the adhesion zone area. The vertical joint tape is bonded over the end of the first horizontally laid joint tape and sealed. The width of the overlap is always only the width of the adhesion zone of the vertical joint tape.

## MATERIAL REQUIREMENTS

Joint width	Adhesion zone width	Substrate condition	Primer consumption litres / 100 m	Adhesive consumption 600 ml bag / 100 m
40 mm	2 x 8 mm	smooth	0.7 l	10
		medium	0.8 l	13
		coarse	0.9 l	16
50 mm	2 x 10 mm	smooth	0.8 l	12
		medium	0.9 l	16
		coarse	1.0 l	19
60 mm	2 x 12 mm	smooth	0.9 l	15
		medium	1.1 l	20
		coarse	1.2 l	25
80 mm	2 x 16 mm	smooth	1.2 l	20
		medium	1.4 l	26
		coarse	1.5 l	32
100 mm	2 x 20 mm	smooth	1.4 l	25
		medium	1.6 l	33
		coarse	1.8 l	40
120 mm	mind. 2 x 20 mm	smooth	at least 1.4 l	at least 25
		medium	at least 1.6 l	at least 33
		coarse	at least 1.8 l	at least 40
140 mm	mind. 2 x 20 mm	smooth	at least 1.4 l	at least 25
		medium	at least 1.6 l	at least 33
		coarse	at least 1.8 l	at least 40
160 mm	mind. 2 x 20 mm	smooth	at least 1.4 l	at least 25
		medium	at least 1.6 l	at least 33
		coarse	at least 1.8 l	at least 40
180 mm	mind. 2 x 20 mm	smooth	at least 1.4 l	at least 25
		medium	at least 1.6 l	at least 33
		coarse	at least 1.8 l	at least 40
200 mm	mind. 2 x 20 mm	smooth	at least 1.4 l	at least 25
		medium	at least 1.6 l	at least 33
		coarse	at least 1.8 l	at least 40

Reference values for the material requirements for 100 m of joint repair with the EGOSIL TAPE elastomer joint tape system

## REQUIRED WORKING TIME

The required working time for laying the EGOSIL TAPE joint tape system depends on several influencing factors on the property and on the work technique chosen (suspended platform, scaffolding, etc.). In addition to the tape installation type (flat, in a loop at an angle), the preparatory processes (e.g. older sealant in the joint, reprofiling of the joint edges, old coating) and the property details (building height, element lengths, scope, joint dimensions, number of joint intersection points and joints, etc.) must be taken into account for the time required for joint repair. The EGOSIL TAPE joint tape length of 25 m (longer where necessary) per roll, the single-component, ready-to-use transparent EGOSIL adhesive and the high early stability of the joint tape system have a beneficial effect on the processing time.

For the work processes:

- preparing and cleaning the joint area
- primer application
- adhesive application
- applying and pressing on the joint tape
- smoothing and finishing

working times of 10 min. to 18 min. per metre of joint can be used as non-binding reference values for planning, depending on the starting condition. From experience, these work processes are carried out by 2 workers.

# SILICONE TAPES

## SERVICE

EGO offers the following for joint repair:

- a joint tape system which is certified in accordance with the requirements of IVD leaflet no. 4 and approved in accordance with VOB/C DIN 18349
- fully completed or individually generated tender texts for joint repair with elastomer joint tapes in the EGOSIL TAPE system range
- our many years of experience in joint restoration on building boards with more than 500 reference properties for your peace of mind
- services in planning, calculation, provision of samples, tendering and implementation of structures for joint sealing with **EGOSIL TAPE**
- training and instruction in the theory and practice of joint sealing for installation teams, including on the construction site
- an extensive selection of colours and various joint tape dimensions taking specific customer wishes for facade design into account through individual colour adjustment
- a joint tape system that can be reliably adhered to a fully coated facade surface without reworking



	Materialbasis	Polymer content	Shore A hardness	Tensile force	Resistance to further tearing	Temperature resistance	Handling temperature	Resilience	Acc. total deformation	UV stability	Colours
<b>EGOSIL TAPE 960</b>	Silicone rubber, softener-free	100 % (except for < 1 % colour pigment)	approx. 45	approx. 90 N (tape thickness 2mm)	approx. 8 N/mm	- 40 °C to + 180 °C	from + 5 °C	over 90 %	25 %	fulfilled; with change in properties	all colours similar to RAL colour card
<b>EGOSIL TAPE 970</b>	Silicone rubber, softener-free	100 % (except for < 1 % colour pigment)	ca. 50	ca. 90 N (längs; Banddicke 2 mm)	approx. 8 N/mm	- 40 °C to + 180 °C	from + 5 °C	over 90 %	25 %	fulfilled; with change in properties	signal white, other colours on request
<b>EGOSIL TAPE 980</b>	Silicone rubber, softener-free	100 % (except for < 1 % colour pigment)	ca. 45	ca. 90 N (Banddicke 2 mm)	approx. 8 N/mm	- 40 °C to + 180 °C	from + 5 °C	over 90 %	25 %	fulfilled; with change in properties	all colours similar to RAL colour card
	Materialbasis	Spec. Weight	Shore A hardness	Module/ tensile stress	Temperature resistance	Handling temperature	Skin formation time	Vulcanisation	Acc. total deformation	Viscosity	Standard colours
<b>EGOSIL Adhesive</b>	single-comp. Silicone rubber, neutral	approx. 1,0 g/cm <sup>3</sup>	approx. 25	approx. 0,40 N/mm <sup>2</sup>	- 40 °C to + 150 °C	+ 5 °C to + 40 °C	approx. 15 – 20 Min. depending on temperature	approx. 2 mm/ 24 hours	25 %	stable	transparent, other colours on request

## EGO PRIMER FDF

### Areas of application

concrete, facade, tiles, natural stone

### Characteristics

**Ablüftezeit**  
**30 min.**



	100 ml Bottle	500 ml Can	5000 ml Metal canister
Order number	660640300	660260300	660720300

EGO PRIMER FDF is a ready-to-use primer (non-discolouring) for improvement of contact adhesion of EGOSIL Adhesive, EGOSILICONE and MS/SMP polymers, preferably on marble, artificial and natural stone.

## EGO PRIMER FML

### Areas of application

Acrylic glass, polycarbonate, polyester  
hard PVC, varnishes, facade paint

### Characteristics

**Ablüftezeit**  
**30 min.**



	100 ml Bottle	500 ml Can	5000 ml Metal canister
Order number	662640000	662260000	662720000

EGO PRIMER FML is a ready-to-use primer for improvement of contact adhesion of EGO-SILICONE on any kinds of metal, plastics, such as acrylic glass, polycarbonate, hard PVC, polyester and coats such as varnishes and facade paints, etc.



EGO DICHSTOFFWERKE GMBH & CO. BETRIEBS KG

Kaltenbrunn 27 · D-82467 Garmisch-Partenkirchen  
Fon +49 (0)8821 95 69 0 · Mail info@ego.de



Quality-  
Products



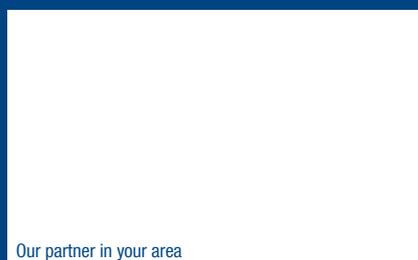
-  Australia
-  Belgium
-  China
-  Finland
-  France
-  Greece
-  New Zealand
-  The Netherlands
-  Norway
-  Sweden
-  Switzerland
-  Slovenia
-  Czech Republic
-  UAE

Subject to misprints, technical and sales programme alterations.  
Deviations from the original colours are caused by the printing  
technology used. Edition 01/2023

[www.ego.de](http://www.ego.de)



Mitglied im Bundesinnungsverband  
des Glaserhandwerks  
Mitglied im Industrieverband  
Dichtstoffe e.V.  
Mitglied des Instituts für  
Fensterertechnik e.V. Rosenheim



Our partner in your area