

NEUTRAL SILICONE ULTIMATE MF CHEMISIL

PRODUCT DESCRIPTION

Neutral Silicone Ultimate MF Chemisil is a one-component sealant with a neutral base, which cures in contact with atmospheric humidity and is MEKO free (product harmful to the environment and health). Sealant with permanent elasticity effect and excellent adhesion on most building materials

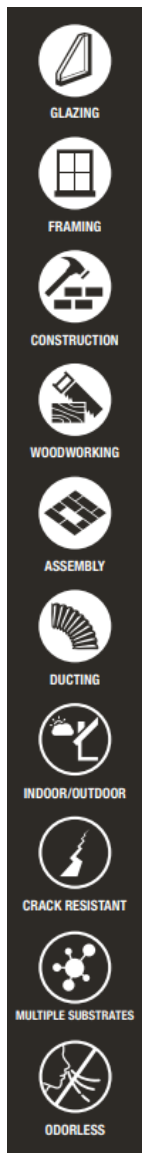
CHARACTERISTICS

- ✓ **Elasticidade permanente e excelente aderência a todos os materiais de construção.**
- ✓ **Permanent elasticity and excellent adhesion to all construction materials.**
- ✓ **Excellent mechanical properties.**
- ✓ **Movement accommodation up to 25%.**
- ✓ **Resistant to atmospheric effects, U.V. and ageing.**
- ✓ **Resistant to various chemicals.**
- ✓ **Does not cause corrosion.**
- ✓ **Does not run in vertical joints.**
- ✓ **Prevents the formation of mold on the silicone due to the special mixture.**
- ✓ **Complies with the ISO 11 600 standard.**

TECHNICAL SPECIFICATIONS

Properties	Value	Standard
Chemical base	Neutral Oxime (MEKO FREE)	-
Appearance	Pastosa	
Density at 20°C	1,010 ± 0,02 Br/Cores 1,310 ± 0,02 Transp.	-
Film formation time (23° and 50% h.r.)	7 minutos	-
Healing speed (23° and 50% h.r.)	> 2 mm/24h	-
Application temperature	- 5°C até +40°C	-
Hardness (Shore A)	20 ±5	ISO 868
Tensile strength	0,5-0,8 MPa	ISO 8339
100% elastic modulus	<0,4 Mpa	ISO 8339
Change in volume	<10%	ISO 10563
Elongation at break	300-400 %	ISO 37
Elastic recovery	98%	ISO 7389
temperature resistance	-40°C a +180°C	-

Results tested in the laboratory.



APPLICATIONS

The product is recommended for sealing joints in environments where mold can form (bathrooms and kitchens), as it prevents the formation of mold.

Due to its excellent adhesion, the product is suitable for sealing and bonding various construction materials (concrete, brick, wood, steel, aluminum, various types of plastic, foamed concrete, ceramics, plasterboard, glass, metal, porcelain, styrofoam and enamel).

It can also be used for glazing, installation of glass in wooden, aluminum and PVC frames, for mounting skylights, sealing expansion joints on facades and floors, for final joints between window frames, sills and walls, shutter frames...

The product is also suitable for elastic sealing and bonding in the power generation industry, machinery, vehicles and shipbuilding.

METHOD OF APPLICATION

PREPARATION.

- Surfaces must be very clean and dry, degreased and free of friable particles that could hinder adherence. You can use acetone, alcohol or degreaser to clean the substrate.
- Check the compatibility of the **Neutral Silicone Ultimate MF Chemisil** with the substrates and, if necessary, apply a primer.

APPLICATION

- If necessary, use joint cord to avoid three-point contact and observe the width/depth ratio defined by the following general rule: ideal joint depth = joint width / 2, with a minimum depth of 6mm.
- The application temperature must be between +5°C and +40°C.
- If necessary, apply masking tape to the sides of the joints to protect the places where it should not come into contact.
- Cut the tip and place it in the cartridge. It is recommended that this cut be made at 45°C, in the diameter required for sealing the joint.
- Ultimate MF Chemisil Neutral Silicone can be applied with a manual or pneumatic spray gun.
- Apply the product in uniform and continuous strands for sealing. After application, use a spatula to smooth the joint with soapy water and remove the masking tape before forming a film. It is very important to press the sealant well against the surface to be sealed.
- The curing process starts when it comes into contact with the humidity in the air, which is done from the outside to the inside 2mm every 24 hours.

CLEANING

- Tools can be cleaned with acetone before the sealant cures. After curing, it can only be removed by mechanical action.

PAINTING

- Cannot be painted.

RESTRICTIONS OF USE

Not compatible with the butyl rubber material used in double glazing.

Its use in aquarium constructions is not recommended;

Not recommended for sealing structural glass;

SAFETY INFORMATION

It must be used in ventilated areas, avoiding contact with the skin, eyes and mucous membranes. Keep out of the reach of children.

For further information and advice on safe handling, storage and disposal of chemicals, the user should refer to the most recent version of the Material Safety Data Sheet which contains physical, ecological, toxicological and other safety-related data.

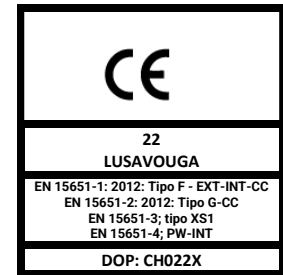
STORAGE CONDITIONS AND SHELF LIFE

Shelf life 18 months if stored under recommended conditions, as it may shorten the term.

CERTIFICATIONS

CE Marking and Declaration of Performance for::

- ❖ Sealant for facade joints in interior and exterior applications: EN 15651-1: 2012: Type F - EXT-INT, class 25LM
- ❖ Sealant for glass sealing applications: EN 15651-2: 2012: Type G, class 25LM
- ❖ Sealant for sanitary joints: EN 15651-3; type S, class S1 Sealant for indoor pedestrian walkways in accordance with the European standard EN 15651-4:2012 PW-INT.



Complies with ISO 11 600 - classification and sealant requirements.

ADDITIONAL INFORMATION

The table shows how many linear meters of joints we can seal with a 300ml cartridge in relation to the width and depth of the joint.

Joint depth (mm)	Joint width (mm)					
	6	8	10	12	15	20
6	8,3	6,2	5,0	4,2		
8		4,7	3,7	3,1	2,5	
10			3,0	2,5	2,0	1,5
12				2,1	1,7	1,3
15					1,3	1,0
20						0,75



Correct sizing of expansion joints:



For optimum elasticity of a sealant, the correct width: depth ratio is of utmost importance.

The aspect ratio is 2:1, 1:1 at most. The sealant must not adhere to the bottom of the joint, but only to the sides. This can be achieved using the JOINT BOTTOM CORD.

The minimum and maximum width of the joint is 6mm and 20mm respectively.

PACKAGING

SAP	SPECIFICATION		Volume ml	RAL 	EAN
CH02210000	CHEMISIL NEUTRAL SILICONE ULTIMATE MF TRANSP 300ML	12	300	-	5604630124218
CH02210001	CHEMISIL NEUTRAL SILICONE ULTIMATE MF CHAMPAGNE 300ML	12	300	-	5604630157346
CH02211015	CHEMISIL NEUTRAL SILICONE ULTIMATE MF BEIGE RAL1015 300ML	12	300	1015	5604630165143
CH02213005	CHEMISIL NEUTRAL SILICONE ULTIMATE MF BORDEAUX RAL3005 300ML	12	300	3005	5604630165150
CH02216005	CHEMISIL NEUTRAL SILICONE ULTIMATE MF GREEN RAL6005 300ML	12	300	6005	5604630165174
CH02217011	CHEMISIL NEUTRAL SILICONE ULTIMATE MF GREY RAL7011 300ML	12	300	7011	5604630165198
CH02217013	CHEMISIL NEUTRAL SILICONE ULTIMATE MF BRONZE RAL7013 300ML	12	300	7013	5604630165204
CH02217016	CHEMISIL NEUTRAL SILICONE ULTIMATE MF GREY RAL7016 300ML	12	300	7016	5604630156479
CH02217021	CHEMISIL SILICONE NEUTRO ULTIMATE MF GREY RAL7021 300ML	12	300	7021	5604630165228

SAP	SPECIFICATION		Volume ml	RAL 	EAN
CH02217022	CHEMISIL NEUTRAL SILICONE ULTIMATE MF GREY RAL7022 300ML	12	300	7022	5604630165235
CH02217037	CHEMISIL SILICONE NEUTRO ULTIMATE MF GREY RAL7037 300ML	12	300	7037	5604630165259
CH02218007	CHEMISIL SILICONE NEUTRO ULTIMATE MF BROWN RAL8007 300ML	12	300	8007	5604630165273
CH02218014	CHEMISIL NEUTRAL SILICONE ULTIMATE MF BROWN RAL8014 300ML	12	300	8014	5604630156486
CH02219003	CHEMISIL NEUTRAL SILICONE ULTIMATE MF WHITE RAL 9003 300ML	12	300	9003	5604630124225
CH02219005	CHEMISIL NEUTRAL SILICONE ULTIMATE MF BLACK RAL9005 300ML	12	300	9005	5604630156493
CH02219006	CHEMISIL NEUTRAL SILICONE ULTIMATE MF ALUMINIUM RAL9006 300ML	12	300	9006	5604630157339
CH02219007	CHEMISIL NEUTRAL SILICONE ULTIMATE MF ALUMINIUM RAL9007 300ML	12	300	9007	5604630165280
CH02219010	CHEMISIL NEUTRAL SILICONE ULTIMATE MF WHITE RAL 9010 300ML	12	300	9010	5604630124256

Note: This technical sheet cancels and replaces others previously issued for the same product. The technical information given, verbally or in writing, is based on our current knowledge, given in good faith and supported by various laboratory tests. Taking into account the diversity of factors that may affect the product during its use, as well as the various application techniques, the user is responsible for confirming and carrying out his own tests and experiments, whether the product is suitable for the process and type. of use in question. For these reasons, any application of the product is carried out under the sole responsibility of the user, and CHEMITOOL-LUSAVOUGA S.A. cannot. be liable for any losses or damages, directly or indirectly resulting from the application. All product features, specifications and images are subject to change without notice.