

SILICONE NEUTRAL ULTIMATE AY/T CHEMISIL

CHEMISIL
NEUTRAL
ULTIMATE AY/T


PRODUCT DESCRIPTION

Silicone Neutral Ultimate AY/T Chemisil is a one-component neutral silicone, Alcoxy-based sealant that cures in contact with atmospheric humidity.

Neutral sealant with permanent elasticity and excellent adhesion to most building materials.

CHARACTERISTICS

- ✓ **Professional quality**
- ✓ **Permanent elasticity and excellent adhesion to all construction materials.**
- ✓ **Excellent mechanical properties.**
- ✓ **Resistant to atmospheric effects, U.V. and ageing.**
- ✓ **Does not cause corrosion.**
- ✓ **Does not run in vertical joints.**
- ✓ **Complies with the ISO 11 600 standard.**
- ✓ **Compatible for most peripheral insulating glass seals as well as PVB films for safety glass.**

TECHNICAL SPECIFICATIONS

Property	Value	Standard
Chemical base	Alcoxy curing polysiloxanes	-
Appearance	pasty	
Density at 20°C	1,04 ± 0,02 (AY) 1,25 ± 0,02 (AYT)	ISSO 1183
Film formation time (23° e 50% h.r.)	10 minutes	-
Curing time at (23° e 50% h.r.)	1-2 mm/24h	-
Application temperature	- 5°C até +40°C	-
Hardness (Shore A)	23 (AY) 16 (AYT)	ISO 868
Tensile strength	0,6-0,7 MPa	ISO 8339
100% elastic modulus	0,36 N/mm ² (AY) 0,27 N/mm ² (AYT)	ISO 8339
Elongation at break	300% (AY) 320% (AYT)	ISO 8339
Maximum deformation	25%	ISSO 11600
Elastic recovery	>90%	ISO 7389
temperature resistance	-50°C a +150°C	-

Results tested in the laboratory.

APPLICATIONS

Glazing sealant compatible with butyl sealants and PVB films.

Used for insulating and sealing building joints, watertight joints, insulation for installing glass in wooden, aluminum or PVC frames, for glazing, for sealing light roof domes, end joints between frames for windows, sills and walls, window frames and skylights and for sealing expansion joints.

METHOD OF APPLICATION

PREPARATION

- Surfaces must be very clean and dry, degreased and free of friable particles that could hinder adhesion. You can use acetone, alcohol or degreaser to clean the substrate.
- Check the compatibility of **Silicone Neutral Ultimate AY/T 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.
- **Silicone Neutral Ultimate AY/T Chemisil** can be applied with a manual or pneumatic gun.
- Apply the product in uniform and continuous strands for sealing. After application, use a spatula to smooth the joint 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

It is not recommended to use it in aquarium constructions and natural stone;

Not recommended for sealing structural glass;

No adhesion on PE, PP, PTFE and bituminous substrates.

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.

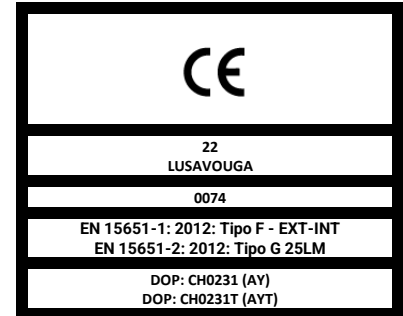
STORAGE CONDITIONS AND SHELF LIFE

Store in a cool, dry, well-ventilated environment between +5°C and + 25°C, away from sources of heat and moisture. Shelf life 18 months if stored under recommended conditions, otherwise shelf life may be shortened.

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
- ❖ Sealant for glass sealing applications: EN 15651-2: 2012: Type G 25LM.



Complies with ISO 11 600 - classification and sealant requirements.



SNJF certification with Mastic élastomère classification, class 25E for unprimed anodized aluminum, registered n.º4979(AY) and n.º4980(AYT) in the following colors:

Transparent, White, Bronze, Brown, Grey, Black, RAL 1015, RAL 2003, RAL 9016



Façade n.º 4979 (AY)
 Façade n.º 4980 (AYT)

PACKAGING

REFERENCE	SPECIFICATION		Volume ml	RaL 	EAN
CH02310000	CHEMISIL NEUTRAL ULTIMATE AYT TRANSPARENT	12	300	-	5604630156509
CH02310001	CHEMISIL NEUTRO ULTIMATE AY CHAMPAGNE	12	300	-	5604630165297
CH02311015	CHEMISIL NEUTRAL ULTIMATE AY BEIGE	12	300	1015	5604630165303
CH02313005	CHEMISIL NEUTRO ULTIMATE AYT BORDEAUX	12	300	3005	5604630165327
CH02316005	CHEMISIL NEUTRAL ULTIMATE AY GREEN 6005	12	300	6005	5604630165334
CH02316200	CHEMISIL NEUTRAL ULTIMATE AY GREEN 6200	12	300	6200	5604630165341
CH02317004	CHEMISIL NEUTRAL ULTIMATE AY GRAY 7004	12	300	7004	5604630165358
CH02317011	CHEMISIL NEUTRAL ULTIMATE AY GRAY 7011	12	300	7011	5604630165365
CH02317016	CHEMISIL NEUTRAL ULTIMATE AY GRAY 7016	12	300	7016	5604630156523
CH02317021	CHEMISIL NEUTRAL ULTIMATE AY GRAY 7021	12	300	7021	5604630165396
CH02317037	CHEMISIL NEUTRAL ULTIMATE AY GRAY 7037	12	300	7037	5604630165426
CH02318007	CHEMISIL NEUTRAL ULTIMATE AY BROWN 8007	12	300	8007	5604630165440
CH02318014	CHEMISIL NEUTRAL ULTIMATE AY BROWN 8014	12	300	8014	5604630165457
CH02319003	CHEMISIL NEUTRAL ULTIMATE AY WHITE 9003	12	300	9003	5604630156516
CH02319006	CHEMISIL NEUTRAL ULTIMATE AYT GRAY	12	300	9006	5604630165471
CH02319007	CHEMISIL NEUTRO ULTIMATE AYT INOX	12	300	9007	5604630156530
CH02319010	CHEMISIL NEUTRAL ULTIMATE AY WHITE 9010	12	300	9010	5604630165488
CH02319011	CHEMISIL NEUTRAL ULTIMATE AY BLACK	12	300	9011	5604630191548
CH02319999	CHEMISIL NEUTRAL ULTIMATE AYT GLOSSY WHITE	12	300	-	5604630183734

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 PE JOINT ROD.

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

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 features, specifications and product images are subject to change without notice.