

Torggler

Silicone Sealant

LAMIERA

PROFESSIONAL

Neutral curing silicone sealant specifically for tin roofing works.

- High sealing properties
- Permanent elasticity
- Excellent resistance to aging
- 5 colours

CHARACTERISTICS

Lamiera is a silicone sealant with specific adhesive properties for metal supports; ideal for galvanised sheet metal, tinplated bands, copper, brass, bronze, iron, stainless steel, lead, aluminium, pre-varnished sheet metal. Lamiera adheres firmly to a wide variety of surfaces, even on porous supports. The extremely long experience gained in building yards proves the exceptional and long duration even in the presence of atmospheric agents and UV rays, so much so that there are no traces of surfaces cracks or crumbling even in joints that are more than 20 years old, thus demonstrating a greater resistance to ageing than any other non-silicone resin sealant.

Lamiera is classified according to EN 15651-1: F-EXT/INT-CC as a sealant for façade for interior and exterior application (intended for use in cold climates).

APPLICATION RANGE

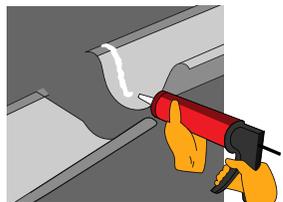
The permanent elasticity, perfect seal and absence on unpleasant smells during application due to its neutral curing, makes Lamiera irreplaceable for sealing and gluing metal sections for flashing, coping and roofing work. It is used with excellent results even in the elastic and waterproof seals between pipes and rendering, between boards and ceramic tiles, between sheet metal roofs and the walls, between flashing and chimney-pots and for the assembly of structures made of laminated sheet / aluminium and insulating panels.



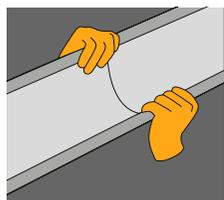
INSTRUCTIONS FOR USE



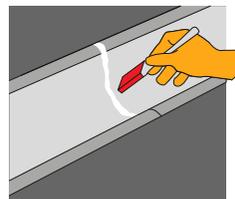
- 1.**
Prepare the surface to be sealed ensuring that it is clean, rust-proof and free of loose particles and grease and perfectly dry. If the surface is prepared in this manner, it does not require Primer Silicon.



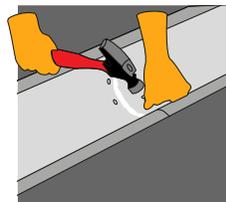
- 2.**
Apply a bed of sealant 1 cm large at the points where the metal sheets will overlap.



- 3.**
Overlap the metal sheets and press them firmly.



- 4.**
Apply another stripe of sealant along the joint and tool this with a spatula.



- 5.**
Drill holes in the sheet metal and apply the rivets.



- 6.**
Apply sealants to the rivets and level with the spatula.

CLEANING OF THE TOOLS USED

Uncured sealant can be removed with solvents; cured sealant must be scraped off.

OBSERVATIONS

Silicone Lamiera is not recommended for structural gluing.

TECHNICAL DATA

PARAMETER AND TEST METHOD	VALUE
Density (ISO 1183-1):	1,49 g/ml
Application temperature:	from +5 °C to +40 °C
Skin-over time (MIT 33*):	approx. 79 minutes
Skin-over rate from the outside to the inside at 23 °C (MIT 32*):	approx. 2,0 mm in 24 h
Operating temperature:	from -50 °C to +150 °C
Shore A hardness (DIN 53505):	approx. 28
Elongation at failure (DIN 53504 - Punch S3):	460 %
Tensile strength (DIN 53504 -Punch S3):	0,72 N/mm ²
Modulus of elasticity at 100% (DIN 53504 - Punch S3):	0,38 N/mm ²
Ultimate elongation (EN ISO 8339/A aluminium support – Al _{up} at 23 °C):	270 %
Tensile strength (EN ISO 8339/A aluminium support – Al _{up} at 23 °C):	0,27 N/mm ²
Elastic 100% modulus (EN ISO 8339/A aluminium support – Al _{up} at 23 °C):	0,22 N/mm ²
Elastic recovery (EN 27389/B aluminium support at 23 °C):	ca. 80 %
Ultimate elongation (EN ISO 8339/A aluminium support Al _{up} at -30 °C):	270 %
Tensile strength (EN ISO 8339/A aluminium support Al _{up} at -30 °C):	0,74 N/mm ²
Elastic 100% modulus (EN ISO 8339/A aluminium support Al _{up} at -30 °C):	0,53 N/mm ²
Maximum allowed joint movement:	25 %
Acid resistance:	Excellent
Base resistance:	Excellent
Odour after curing:	None

* Torggler internal methods (MIT) are available on request.

STORAGE

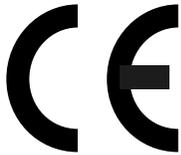
Lamiera must be stored in a cool dry place. Under these conditions it can be kept for at least 12 months. Once opened, cartridges can be stored for approximately 3 months if tightly closed.

PACKAGING

Cartridge 310 ml

COLOUR TABLE

	Grey
	Sand grey
	Copper
	Brown
	Anthracite



Torggler Chimica S.p.A., Via Verande 1/A – 39012 Merano (BZ)

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DoP n° 067/14

NB n° 0432

EN 15651-1:2012

Silicone Lamiera: Sealant for facade for interior and exterior application (intended for use in cold climates
EN 15651-1: F-EXT/INT-CC

Conditioning: ISO 8339/A
Substrate: Al_p

Reacton to fire	F	
Release of dangerous substances	NPD	
Water tightness and air tightness	Resistance to flow	≤ 3 mm
	Loss of volume	≤ 10 %
	Tensile properties at maintained extension after immersion in water at 23 °C	NF
	Tensile properties (secant tensile modulus at -30 °C)	≤ 0,9 N/mm ²
	Tensile properties at maintained extension at -30 °C	NF
Durability	Passed	

CERTIFICATIONS

Test reports and declarations of performance (DoP) are available on request.

LEGENDA FOR CLASSIFICATION ACCORDING TO EN 15651

F	Sealant for non-structural joints for the building trade, on facades. (F = facade elements)
INT	Sealant for internal use only.
EXT-INT	Sealant for internal and external use.
CC	Sealant tested for cold climates (CC = cold climate - testing done at -30 °C).
G	Sealant for non-structural joints on glazing and door and window frames. (G = glazing)
S	Sealant for non-structural joints in bathroom installations. (S = sanitary joints)
XS	Sealant for joints in bathroom installations with improved performance.
PW	Sealant for non-structural joints on pedestrian walkways. (PW = pedestrian walkways)

To the best of our knowledge the information given in this document is true and accurate. However, since we have no direct control over the actual conditions of use, our recommendations and suggestions are provided as a guide only and do not constitute a guarantee. If you have any doubts we recommend that you test the product before use or contact our specialists for further advice. Torggler Chimica S.p.A. reserves the right to change, substitute or delete items or otherwise make variations to the product data in this document without prior notice. It is possible therefore that the information given in this document is no longer valid. This document substitutes the previous version. Version 09.2018