

Torggler

Sealants and Adhesives

LAMIERA

Neutral curing silicone sealant specifically for tin roofing works.



- High sealing properties
- Permanent elasticity
- High UV and ageing resistance
- Wide range of colours
- Meko free formulation



APPLICATION AREAS

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.

FEATURES

Lamiera is a silicone sealant with specific adhesive properties for metal supports; ideal for galvanised sheet metal, tinned 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).

WARNINGS

Silicone Lamiera is not recommended for structural bonding.

INSTRUCTIONS FOR USE

1. Prepare the surface to be sealed ensuring that it is clean, rustproof 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.

TECHNICAL SPECIFICATIONS

Colours 1: grey, sand grey, powder grey, copper, dark brown, anthracite, sienared, corten

Colours 2: white, ivory

Colours 3: aluminium

PARAMETER AND TEST METHOD	COLOURS 1	COLORUS 2	COLORUS3
Density (ISO 1183-1)	1,49 g/ml	1,35 g/ml	1,04 g/ml
Application temperature	da +5 °C a +40 °C	da +5 °C a +40 °C	da +5 °C a +40 °C
Skin-over time (MIT 33*)	ca. 79 minuti	ca. 30 minuti	ca. 49 minuti
Skin-over rate from the outside to the inside at 23 °C (MIT 32*)	ca. 2,0 mm in 24 h	ca. 2,5 mm in 24 h	ca. 2,33 mm in 24 h
Operating temperature	da -50 °C a +150 °C	da -50 °C a +150 °C	da -50 °C a +150 °C
Shore A hardness (DIN 53505)	ca. 28	ca. 25	ca. 12
Elongation at break (DIN 53504 – Punch S3)	460 %	500 %	582 %
Tensile strength (DIN 53504 -Punch S3)	0,72 N/mm ²	0,60 N/mm ²	0,56 N/mm ²
Modulus of elasticity at 100% (DIN 53504 – Punch S3)	0,38 N/mm ²	0,39 N/mm ²	0,22 N/mm ²
Ultimate elongation (EN ISO 8339/A aluminium support – Al _{up} at 23 °C)	270 %	250 %	185 %
Tensile strength (EN ISO 8339/A aluminium support – Al _{up} at 23 °C)	0,27 N/mm ²	0,35 N/mm ²	0,20 N/mm ²
Elastic 100% modulus (EN ISO 8339/A aluminium support – Al _{up} at 23 °C)	0,22 N/mm ²	0,28 N/mm ²	0,17 N/mm ²
Elastic recovery (EN 27389/B aluminium support at 23 °C)	ca. 80 %	ca. 80 %	71 %
Ultimate elongation (EN ISO 8339/A aluminium support Al _{up} at -30 °C)	270 %	270 %	
Tensile strength (EN ISO 8339/A aluminium support Al _{up} at -30 °C)	0,74 N/mm ²	0,74 N/mm ²	
Elastic 100% modulus (EN ISO 8339/A aluminium support Al _{up} at -30 °C)	0,53 N/mm ²	0,53 N/mm ²	
Maximum allowed joint movement	25 %	25 %	25 %
Base resistance	ottima	ottima	ottima
Resistenza alle basi	ottima	ottima	ottima

Odour after curing	nullo	nullo
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* Torggler internal methods (MIT) are available on request.

Color	Aluminium 9006, Anthracite 7016, Black 9005, Copper 8004, Dark brown 8022, Grey 7045, Ivory 1013, Sand grey 9002, Sienared 3009, White 9010, Corten, Dusty grey 7037
Packaging	cartridge
Packaging size	24x310 ml
Pallet	64 cardboards

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.

CERTIFICATIONS

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

			
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Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marleno (BZ) DoP n° 0067/14 EN 15651-1:2012 NB n° 0432			
EN 15651-1:2012: Sealants for joints in exterior/interior application also used in cold climate areas (F-EXT/INT-CC – 25 LM)			
Reaction to fire	F	EN 15651-1:2012	
Release of chemical dangerous to the environment and health	NPD		
Durability	Pass		
Water tightness and Air tightness	Resistance to flow		≤ 3 mm
	Loss of volume		≤ 10%
	Tensile properties at maintained extension after water immersion at 23°C		NF
	Tensile properties at maintained extension after water immersion at -30°C	NF	
	Tensile properties (secant modulus) at -30°C	≤ 0,9 MPa	

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Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marlengo (BZ)
DoP n° 0068/14
EN 15651-1:2012
NB n° 1213

EN 15651-1:2012: Sealants for joints for exterior/interior application also used in cold climate areas (F-EXT/INT-CC – 25 LM)

Reaction to fire		F	EN 15651-1:2012
Release of chemical dangerous to the environment and health		NPD	
Durability		Pass	
Water tightness and air tightness	Resistance to flow	≤ 3 mm	
	Loss of volume	≤ 10%	
	Tensile properties at maintained extension after water immersion at 23°C	NF	
	Tensile properties at maintained extension after water immersion at -30°C	NF	
Tensile properties (secant modulus) at -30°C		≤ 0,9 MPa	

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Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marlengo (BZ)
DoP n° 0199/14
EN 15651-1:2012
NB n° 1292

EN 15651-1:2012: Sealants for joints for exterior/interior application also used in cold climate areas (F-EXT/INT-CC 25 LM)

Reaction to fire		NPD	EN 15651-1:2012
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Release of chemical dangerous to the environment and health		NPD
Durability		Pass
Water tightness and Air tightness	Resistance to flow	≤ 3 mm
	Loss of volume	≤ 10%
	Tensile properties at maintained extension after water immersion at 23°C	NF
	Tensile properties at maintained extension after water immersion at -30°C	NF
	Tensile properties (secant modulus) at -30°C	≤ 0,9 MPa

The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at www.torggler.com. Version 19.07.2021.