

Tecnoseal 130

Paintable single-component polyurethane sealant for expansion joints and sealing on metal laminates



Scheda Tecnica rev.01_06/2025

DESCRIPTION

Tecnoseal 130 is a single component, ready to use, polyurethane sealant. It has excellent resistance to atmospheric agents, chemical substances (oils, grease, acids and dilute alkalis) and it is suitable for permanent contact with water. Tecnoseal 130 can be painted and provides a permanent elasticity capable of absorbing continual structural movements (work movement 25%). Tecnoseal 130 adheres perfectly to concrete, natural stone, wood and laminated metals in general.

Tecnoseal 130 is a single component product which polymerises according to the environmental temperature and to the relative humidity, starting with the external surfaces and continuing up to the joint section; with a temperature of about 15°C the polymerisation has a speed of approx. 1 mm per day (with temperatures less than +5°C the polymerisation does not occur).

USES

Elastic and waterproof sealing of both horizontal and vertical expansion joints in traditional and prefabricated buildings. It is ideal in tinsmithry works.

CERTIFICATIONS

It is CE marked as a joint sealant for non-structural use in buildings and pedestrian walkways according to the EN 15651-1 (Type F EXT-INT) and EN 15651-4 (Type PW INT-EXT).



APPLICATION



Gun application

The surfaces must be perfectly dry, clean, free of powder, grease, uneven parts and any material which could hinder a good anchoring of the sealant. There is no need to use an anchoring primer. The width of the joint must be such as to exert a working movement of not more than 25% in the sealant

In case of screed the thickness must not be less than 10 mm and, for joints with a width greater than 2 cm, it must have a width/ thickness ratio of 2-1; to get the correct thickness of the sealant, use the appropriate circular support with closed cells Ethafoam of a suitable section.

For different kind of application, please contact our Technical Department.

The smoothing off of the sealant must be carried out immediately after the application; to obtain a precise sealing, cover the edges of the joint with masking tape and remove the tape immediately after smoothing off the sealant without waiting for the sealant to set.

Tecnoseal 130 is rain resistant after only 2-3 hours from the application; however do not apply it to wet surfaces.

CONSUMPTION

One litre of volume (approx. 10 ml of joint with section of 1x1cm) is filled by 3 cartridges.

PACKAGING

Ctr 310 ml – Boxes of 12 pieces.

CHARACTERISTICS	VALUE
Colour	Grey
Appereance	Tixotropic paste
Chemical nature	Polyurethane
Application temperature [°c]	Da +5 a +40
Heat resistance [°c]	-40 / +90 °c
Shore-a hardness (23°C e 50% h.r.)	40
Specific weight [g/cc]	1,33 ± 0,02
Polymerization	Humidity
thick hardening [mm] (after 1 day at 23°C and 50% h.r.)	2,5
Open time [min] (23°C e 50% h.r.)	50 ÷ 55
100% elastic module [N/mm2] (ISO 37 DIN 53504)	> 0,8
tensile strength [N/mm2] (ISO 37 DIN 53504)	> 1,8
Elongation [%] (ISO 37 DIN 53504)	≥ 450

LIMITI EN 15651-1 LIMITI EN 15651-4	VALUE
Reaction to fire	Class e
Release of chemicals dangerous to the environment and health	NPD
Water tightness and air tightness	
A) resistance to flow	< 3 mm
B) loss of volume	< 10%
c) Tensile properties at maintained extension after water immersion	Not failure
d) Tensile properties at maintained extension	Not failure
e) Adhesion/cohesion properties at maintained extension after 28days water immersion	Not failure
f) Adhesion/cohesion properties at maintained extension after 28days salt water immersion	Not failure
G) tear resistance	Not failure
H) durability	Pass

STORAGE

Tecnoseal 130 must be stored in dry and sheltered places at a temperature between +5°C and 25°C. In these conditions and in unopened cartridges the product's stability is 12 months.

SUSTAINABILITY, HEALTH AND SAFETY

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent safety data sheet, containing physical, ecological, toxicological and other data related to safety.

As of 24 August 2023, a proper training is required prior to industrial or professional use of this product, according to Regulation (EC) No. 1907/2006 (REACH) - Mandatory Training.

The trade associations of diisocyanate producers ISOPA and ALIPA, together with the Association of the European

Adhesive and Sealant industry FEICA, have launched an e-learning course platform, available in all the EU languages. Click the link below to learn more: <https://www.feica.eu/PUinfo>

WARNING

Product for professional use. Tecnoseal 130 must not be applied in temperatures less than +5°C, on friable or wet surfaces. The tools used must be cleaned with Solvente EPOX before hardening starts.

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, ecological, toxicological and other data related to safety. All technical data shown in this Technical Data Sheet are based on laboratory tests. Actual measurement data may vary due to circumstances beyond our control. The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.

TECHNICAL SPECIFICATIONS

SK31- Restoration and sealing of degraded joints

Demolition of all inconsistent material to find compact concrete. Thorough cleaning of the substrate with total elimination of dust, grease, old crumbly paints and any material that could compromise the good anchoring of the resin. Application on the surface to be treated of two-component consolidating resin in aqueous dispersion such as Kimicover FIX or similar with a minimum consumption of 0.3 kg/m².

Reconstruction of the joint with Kimitech EP-IN epoxy resin loaded with Kimifill HM spheroidal quartziferous aggregates by Kimia S.p.A. or similar products. Sealing with Tecnoseal 130 cartridge sealant.

The paintable single-component polyurethane sealant for horizontal expansion joints and for sealing on metal laminates will be prepared and applied scrupulously following the indications given on the technical sheets provided by the Manufacturer and will have the following characteristics:

- Thermal resistance [°C]: From -40 to +90;
- Shore-A hardness (23 ° C and 50% r.h.): 40;
- Specific weight [g / cc]: 1.33 ± 0.02;
- Polymerization: Moisture;

- Hardening thickness [mm] (after 1 day at 23°C and 50% r.h.): 2.5;
- Open time [min] (23°C and 50% r.h.): 50 ÷ 55;
- 100% elastic modulus [N / mm²] (ISO 37 DIN 53504): > 0.8;
- Tensile strength [N / mm²] (ISO 37 DIN 53504): > 1.8;
- Elongation [%]: (ISO 37 DIN 53504): ≥ 450.