

FLEX EDIL N

PRODUCT DESCRIPTION

FLEX EDIL N is a one-part, neutral fast curing, low modulus silicone sealant specifically designed and recommended for the construction industry.

PRODUCT CHARACTERISTICS

It provides excellent primerless adhesion to most of either porous or non-porous construction materials, glass, tiles, ceramics, enamel, glazed tiles and clinker, aluminium, steel, zinc or copper, impregnated, varnished or painted wood, and many plastics.

It's low modulus and elasticity in a wide temperature range makes it suitable for sealing expansion joints in metal and building structures, painted surfaces, glazed surfaces, door and window frames.

FLEX EDIL N has an outstanding long-term resistance to natural weathering, ultraviolet radiation, high and low temperatures.

- Fast curing, quickly becomes tack-free and crack resistant.
- Excellent primerless adhesion to many substrates.
- Excellent tooling characteristics.
- Low modulus, high movement accommodation.
- Flexible at low (-40°C) and high temperatures (+150°C).
- Excellent weatherability.

USES (professional)

- Joints between precast concrete panels and metal.
- Expansion joints in concrete structures.
- Sealing of joints between glazing and supporting structure.
- Perimeter sealing of windows and doors.
- Sealing of roofing and gutters of prepainted sheet steel or copper.
- Sealing of joints for pedestrian walkways.



LIMITATIONS

- **FLEX EDIL N** must not be used for insulating glass applications nor for structural glazing bonding.
- It is not recommended for the production of aquaria nor for longterm use under water.
- Not suitable for joints in swimming pools and adjacent areas that are in continuous contact with pool water.
- It should not be used in contact with marble, natural stones.
- It should not be used in contact with materials bleeding oily matters or plasticizers, nor on surfaces to be overpainted. It is not suitable for use in food contact applications.
- The sealant is not recommended for use in totally confined joints not exposed to air moisture nor for use in joints submitted to abrasion. Do not use in extreme temperature conditions, or on damp, frozen, contaminated surfaces.
- Do not use on excessively acidic or basic substrates. It is not suitable for use as a mirror adhesive.
- For any application not listed in this document please contact our Technical Service.

TECHNICAL DATA

Polymers the curing system:	100% silicone, alcoxy
Consistency:	tixotropic, non-slumping paste
Application temperature:	+5°C / +40°C
Specific gravity:	1,40 g/cm ³
Skin forming time (23°C / 50 % R.H.):	20 minutes
Curing time:	1 - 5 days depending on temperature and humidity and on cross section of applied sealant cord
Shore A Hardness (ISO 868):	22
100% Modulus (ISO 8339):	0,40 N/mm ²
Tensile strength (ISO 8339):	0,50 N/mm ²
Ultimate elongation (ISO 8339):	250%%
Service temperature range:	-40°C / +150°C

The values in this table must not be considered as specifications.



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COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =



FLEX EDIL N

APPROVALS

Standard compliance



15651-1: F-EXT-INT-CC 25 LM sealant for façade for interior and exterior application (intended for use in cold climates).

EN 15651-2: G-CC 25 LM sealant used for sealing glazing applications (intended for use in cold climates).

EN 15651-4: PW-EXT-INT-CC sealant for movement joints in floors for interior and exterior application (intended for use in cold climates).

METHOD OF USE

Surface preparation: the substrate areas that will be in contact with the sealant must be clean, dry and free of all loose material, dust, dirt, rust, oil and other contaminants.

Non-porous substrates should be cleaned with a solvent and a clean, lint-free, cotton cloth.

Remove residual solvent before it evaporates with a fresh clean, dry cloth.

FLEX EDIL N has a good adhesion onto materials commonly used in building, otherwise on to cement, aluminium and painted surfaces, the use of **Primer** can be suggested, appropriate preliminary tests are always recommended. See table of Primers for silicone sealants.

It is the responsibility of the user to test the compatibility of the sealant with the adjoining materials.

Incompatible substances like coating materials (paints, varnishes and glazes) or organic plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant.

Materials in direct contact with the applied sealant like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance.

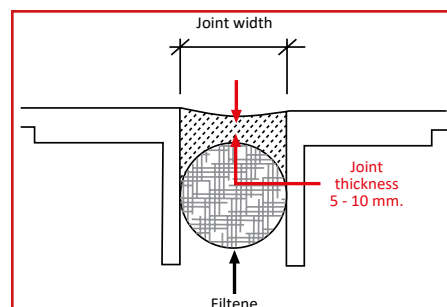
Because of the multitude of these materials, Fratelli Zucchini S.p.A. cannot make a general statement to the compatibility of materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests.

The time until complete curing may be extended at lower temperature, lower humidity, increasing film thickness or by low volume of air exchange.

Recommended joint dimension (see picture): joint depth is to be designed so that to produce a sealant cord of depth not below 5 mm and not over 10 mm.

Depth of sealant should always be less than joint width.

With butt joints, the width should be almost twice expected total movement, in overlap joints equal or greater. Expansion joints should be dimensioned in order to allow insertion to the joint back of our **FILTENE**, a closed cell polyethylene foam round profile, available in several diameters.



Application: apply by hand or by gun. Tooling can be carried out soon before curing.

Solvent wiping: dirty tools can be solvent wiped with **Solvente ST/512**.

After curing **FLEX EDIL N** can be removed mechanically.

FLEX EDIL N can't be overpainted.

SAFETY AND HEALTH

See Safety Data Sheet. During vulcanization ethanol is released, use **FLEX EDIL N** in well ventilated areas.

STORAGE STABILITY

- 310 ml. cartridge 9 months from the date of manufacture.
- 600 ml. bag. 9 months from the date of manufacture.
- 20 kg. drum 6 months from the date of manufacture.

Store the sealed product in the original packaging, in a dry place at a temperature between +5°C and +25°C.

PACKAGING

Code	Colour	Packaging	Unit
1005861	white	310 ml. cartridge	24
1005864	grey	310 ml. cartridge	24
1005865	grey	600 ml. sausage	12

Other sizes available on request.



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