

# BISIL CLEAR

## PRODUCT DESCRIPTION

**BISIL CLEAR** is a silicone sealant, professional use, high performance, one part, fast neutral curing and low modulus. High resistance to weather conditions, temperature extremes, UV rays and moulds. Its superior properties are retained after many years of exposure.

## PRODUCT CHARACTERISTICS

- Suitable for alkaline substrates, as concrete, mortar, fibre reinforced concrete.
- Excellent adhesion without use of Primer on to many substrates such as glass, tiles, aluminium, steel, galvanized sheet, copper, impregnated or painted, some plastics.
- Neutral reaction, almost no corrosion and odourless.
- Pasty, easy to use.
- Excellent aging resistance.
- Flexibility at low temperature (-40°C) and high ones (+180°C).
- Very good mould resistance, indicated for inner applications at high humidity content.

## USES (professional)

- For sealing expansion joint.
- For perimetral sealing of metal frames, wood and PVC.
- For sealing glazed surfaces.
- For sealing sanitary environments.



## LIMITATIONS

- **BISIL CLEAR** 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:	1,03 g/cm <sup>3</sup>
Skin forming time (23°C / 50 % R.H.):	25 minutes
Curing time:	1 - 5 days depending on temperature and humidity and on cross section of applied sealant cord
Shore A Hardness (ISO 868):	24
100% Modulus (ISO 8339-A):	0,38 N/mm <sup>2</sup>
Tensile strength (ISO 8339-A):	0,7 N/mm <sup>2</sup>
Ultimate elongation (ISO 8339-A):	>300%
Tear resistance (ISO 34-C):	4,6 N/mm
Service temperature range:	-40°C / +180°C

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



# BISIL CLEAR

## APPROVALS

### Standard compliance

ISO 11600 F-EXT-INT CLASS 25 LM, G- CLASS 25 LM.



**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).  
**EN15651-3: XS 1** sealant for joints in sanitary areas.

## 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.

**BISIL CLEAR** 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.

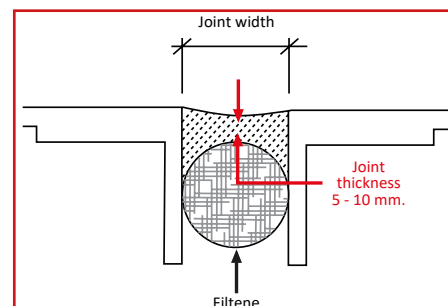
With butt joints, the width should be almost twice expected total movement, in overlap joints equal or greater. Expansion joints should be dimensioned in order to allow insertion to the joint back of our **FILTENE**, a closed cell polyethylene foam round profile, available in several diameters.

**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 **BISIL CLEAR** can be removed mechanically.

**BISIL CLEAR** can't be overpainted.



## SAFETY AND HEALTH

See Safety Data Sheet. During vulcanization ethanol is released, use **BISIL CLEAR** in well ventilated areas.

## STORAGE STABILITY

- 310 ml. cartridge 12 months from the date of manufacture.
- 600 ml. bag. 12 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
1007450	transparent	310 ml. cartridge	24

Other sizes available on request.



**Fratelli Zucchini S.p.A.**

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