



ORBASIL N-36

Curtain wall

DATA SHEET

11/2014

AENOR



Producto
Certificado

047/017

ISO 11600
tipo F+G 25LM



DESCRIPTION:

One part , neutral curing, silicone rubber based sealant .

PROPERTIES:

One component room temperature vulcanising (RVT), easy application system. Its low modulus ensures on the joints during contraction and expansion. Excellent adhesion, highly versatile, unaffected by water, sun, and in general, by the weather. It does not contract or crack, neither is there any sweating.

APPLICATIONS:

- Specially designed for the weatherproofing sealant of window, curtain wall, ventilated facades and structural glazing.
- Ideal for expansion connection, perimeter and other movement joint.

Due to its neutral reticulation and low modulus, **ORBASIL N-36** may be used for deformable and leak proofs joints between a wide range of materials with different dilation coefficients. **ORBASIL N-36** must not be used in joints subjected to traffic.

This products is not approved for use as a structural sealant.

STANDARIZATIONS:

- Mark N (AENOR)
- ISO 11600 F + G 25 LM

CERTIFICATIONS:

CE Mark: EN 15651- 1 F EXT- INT- CC / EN 15651-2 G- CC / EN 15651-3 S

Dop nº: SIB0000127 <http://ce.selena.com/>

OTHER SPECIFICATIONS

Orbasil N-36 conform to the requirements of SNJF : Façades /Vitrages , class 25 E.

UNE 85232. Sellante E.

DIN 18540. Part 2. Sellado

DIN 18545. Part 2. Sellado. Typo E.

TT-S-001543 A. Class A: Products resisting up to 50% of the joint's maximum movement

ISO 11600 F 25 LM., ISO 11600 G 25 LM

NFP 85305 25 E.



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TECHNICAL FEATURES

Uncured product

Appearance:	Homogeneous creamy paste	
Slump resistance (7390):	mm.	0
Tack free (ASTM C-679-71):	Minutes	20-30
Skin over time (BS 5889 Ap.A):	Minutes	30-45
Curing rate at 23° C And 55% h.r.:	Mm/day	1-2
Flash point (DIN 5794):	°C	430
Application temperature:	°C	+5 to +50

Cured product: (4 weeks at 23°C and 55% H.R.)

Appearance:	Similar al caucho	
Shore A Hardness (ISO 868):	--	23
Elastic recovery (ISO 7389):	%	93
Modulus 100% (ISO 37):	MPa.	0,35
Tensile strength (ISO 37):	Mpa.	0,85
Elongation at break (ISO 37):	%	500
Movement accommodation factor (ISO 9047)	%	± 50
Temperature in service:	°C	-50 to + 150

INSTRUCTIONS

Dimensioning of joints:

Their width must be at least 4 times greater than the maximum foreseen movement.

Depth of sealant is chosen on the basis of the joint's width, according to the following table (in mm):

WIDTH	5/6	7/9	10/12	12/15
DEPTH	5	8	7	8

For joint widths greater than 16 mm. depth must be one half of width.

Formation of joints:

A filler should be used in order to avoid adhesion of **ORBASIL N-36** to the bottom of the joint, this would exercise unnecessary tension on the sealant. Meanwhile, regulation of its depth is achieved as well as greater yield. The material to be used must be inert, mechanically stable, homogeneous, corrosion-resistant, and must not adhere to either the sealant or contiguous materials. A particularly recommendable product is closed-cell polyethylene foam, extruded in regular-section strips, such as our POLITEN-CELL.

Treatment of joints:

The surfaces to be sealed must be clean and dry. If necessary, in addition to mechanical means, cleaning with non-grease solvent such as acetone is recommended. For joints to be subjected to major stress, we suggest the use of an appropriate primer for each type of substrate:

PRIMER C-27: For porous materials and general construction use.

PRIMER C-29: For plasticized or unplasticized PVC, polyacrylates and other plastics.

(See *technical Data*)

For glass and enamels, better results are obtained without primer. Any material not known by the user in terms of adhesiveness must first be tested by or consulted with our Technical Department.



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Procedure:

Cut off cap from adapter nipple, screw the nozzle on the cartridge, clip the tip of the nozzle to required opening and insert into caulking gun. Fill in the appropriately treated joint with **ORBASIL N-36**. In order to avoid messing the edges, they may be protected with masking tape. For a better finish, the seal may be smoothed with a spatula.

Yield:

The following formula is an approximate guideline in order to calculate foreseen yield for a standard cartridge of **ORBASIL N-36**:

$$L = \frac{300}{A \times D}$$

Where:

L= Length of sealant in metres obtained per cartridge of **ORBASIL N-36**.

A= Width of the joint in mm.

D= depth of the joint in mm.

Further treatment:

ORBASIL N-36 may not be painted or varnished.

CHEMICAL RESISTANCE:

Water, soapy water, brine:	Excellent.
Inorganic diluted acids and alkalis:	Very good.
Mineral oils and grease:	Very good.
Oil, fuel, hydrocarbons:	Very good.
Other products:	Consult.

STORAGE:

Keep in a cool and dry place.

Lifetime: 18 months , in original sealed container.

PRESENTATION:

300 cc. Plastic cartridges.
24 cartridges boxes.

COLOURS:

Black

CLEANING:

Fresh product is easily removed with an organic solvent. When cured it can be removed by mechanical mean only

HEALTH & SAFETY

While curing **ORBASIL N-36** splits off ketoxime. These vapours must not be inhaled for prolonged periods of time in high levels of concentration. Therefore, the working area should be well ventilated.

Due to possible irritation, all contact of the product with eyes or mucous areas must be avoided. If this should occur, rinse the affected area thoroughly with plenty of water and, if need be, see a doctor. Rubber resulting after curing may be handled without risk.

Primers used with **ORBASIL N-36** contains flammable solvents at room temperature. Do not smoke or use unprotected flame near the working area. If eyes are splashed, rinse thoroughly with plenty of water , otherwise, see a doctor.

Use gloves, and in case of splashing, wash with industrial detergent when the product is still fresh.

DO NOT WASH HANDS WITH SOLVENTS.

For more information request Safety Data Sheet.

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