

DESCRIPTION:

One part, neutral curing, silicone rubber based sealant.

PROPERTIES:

One component room temperature vulcanising (RTV), 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:

- Sealing of joints in construction (static and expansion joint).
- Sealing between frameworks and construction surfaces and between frameworks.
- Sealing PVC.

Due to its neutral reticulation and low modulus, ORBASIL N-09 CONSTRUCTION may be used for deformable and leakproofs joints between a wide range of materials with different dilation coefficients.

ORBASIL N-09 CONSTRUCTION must not be used in joints subjected to traffic.

CERTIFICATIONS:

- CE Mark: EN 15651-1 F- EXT- INT- CC / EN 15651-2 G -CC Dop nº: SIB0000117 <http://ce.selena.com/>
- **A + Certificate**, very low emission product. Determination of Volatile Organic Compounds according to ISO 16000.



TECHNICAL FEATURES:

Uncured ORBASIL N-09 CONSTRUCTION:

Appearance:	Homogeneous creamy paste .	
Slump resistance (ISO 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 ORBASIL N-09 CONSTRUCTION, (4 weeks at 23°C and 55% H.R.)

Appearance:	Similar to rubber	
Shore A Hardness (ISO 868):	-	14±2
Elastic recovery (ISO 7389):	%	93
Modulus 100% (ISO 37):	MPa	0,37
Tensile strength (ISO 37):	MPa	0,95
Elongation at break (ISO 37):	%	350 - 450
Movement accommodation factor	%	20
Temperature in service:	°C	-50 to + 150



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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.

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	6	7	8

For joint widths greater than 16 mm. depth must be one half of width. The joint must have an extension between > 5 mm and ≤ 35 mm.

Formation of joints:

A filler should be used in order to avoid adhesion of **ORBASIL N-09 CONSTRUCTION** 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. Cement slurries must be removed. 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.

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-09 CONSTRUCTION**. 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-09 CONSTRUCTION**:

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

Where:

L=	Length of sealant in metres obtained per cartridge of ORBASIL N-09 CONSTRUCTION .
A=	Width of the joint in mm.
D=	Depth of the joint in mm.

Further treatment:

ORBASIL N-09 CONSTRUCTION may not be painted or varnished.

STORAGE:

Keep in a cool and dry place.

Lifetime: in unopened original packages.

Cartridges: 12 months.

Aluminium bags: 18 months.

PRESENTATION:

In 300 cc. Plastic cartridges.

Aluminium bags 600 CC.

24 cartridges boxes.

COLOURS:

Translucent, white, white lacquer, gey, grey TE, black.

Other colors by demand.

CLEANING:

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



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LIMITATIONS:

Do not use ORBASIL N-09 in applications where continuous water immersion is possible.

Due to possible compatibility problems, direct contact with the secondary sealing of insulating glass units (insulation) must be avoided.

HEALTH & SAFETY:

While curing **ORBASIL N-09 CONSTRUCTION** 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-09 CONSTRUCTION** contain 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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