PRODUCT DATA SHEET

NEXO SEAL RTV PREMIUM SILICONE SEALANT

Product description

NEXO SEAL RTV PREMIUM SILICONE SEALANT is a one-part, neutral silicone sealant with outstanding adhesion to most building substrates. It further exhibits good weather resistance and workability for glazing.

Properties

NEXO SEAL RTV PREMIUM SILICONE SEALANT cures at room temperature in the presence of atmospheric moisture to give a permanent flexible silicone rubber.

Special features

- long shelf life
- non-sag
- readily gunnable both at low (+5 °C) and high (+40 °C) temperatures
- good tooling properties
- excellent weatherability
- excellent adhesion
- excellent durability
- non-corrosive to metals
- suitable for alkaline substrates such as concrete, mortar, fibrous cement

It is the responsibility of the user to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coatings or organic plasticizers can lead to discoloration of the sealant. Cleaning agents and gaseous emissions can damage the sealant in its function or change its appearance. URJA cannot make a general statement to the compatibility of all these varying materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests.

Application

- Sealant for internal connection and expansion joints
- Suitable for fenestration and glazing applications

Adhesion

NEXO SEAL RTV PREMIUM SILICONE SEALANT exhibits excellent primerless adhesion to most non-porous siliceous materials (e.g. glass, tiles, ceramics, enamel, glazed tiles); metals (e.g. aluminum, steel, zinc or copper); impregnated, varnished or painted wood; and some plastics.

Users must carry out own tests due to the great variety of substrates.

The adhesion can be improved in many cases by pretreatment of the substrate with a primer.

Processing

The substrate areas that will be in contact with the sealant must be clean, dry and free of all loose material such as dust, dirt, rust, oil and other contaminants. Non-porous substrates should be cleaned with a solvent and clean, lint-free, cotton cloth. Remove residual solvent before it evaporates with a fresh clean, dry cloth. For application from cartridges cut thread open, fix nozzle on top and cut to required bead size. The sealant can be applied in beads or layers. It requires moisture in order to cure.

The curing time can take longer at lower temperatures, lower humidity or by low volume of air exchange.

NEXO SEAL RTV PREMIUM SILICONE SEALANT is not suitable for the following plastic substrates such as Polyethylene, Polypropylene, ABS, Acrylic, Polycarbonate (PC).

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Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Packaging

NEXO SEAL RTV PREMIUM SILICONE SEALANT is usually supplied in standard size cartridges that fit all standard caulking guns.
During vulcanization methylethylketoxime is released. These vapors should not be inhaled for long periods or in high concentration. Hence, good ventilation of the work place is necessary.

Should uncured silicone rubber come into contact with eyes or mucous membranes, the affected area must be rinsed thoroughly with water as irritation will otherwise be caused. Avoid prolonged contact of uncured sealant with the skin - use a dry cloth or paper to remove it.

Keep out of reach of children.
Cured silicone rubber, however, can be handled without any risk to health.

Typical general characteristics	**Value**
Consistency	Paste
Cure type	Oxime, unfilled
Curing System	Moisture Cure
Density at 23 °C	1.04 g/cm^3
Consistency	non-sag
Extrusion rate at 6 bar	504 g/min
Skin forming time at 23 °C / 50 % r.h.	approx. 10 - 30 min
Temperature Resistance	-60 ◦C to + 170◦C
Hardness Shore A	24
Modulus at 100 % (joint)	0,6 N/mm^2
Tensile strength (joint)	0,43 N/mm^2
Ultimate elongation (joint)	217 %
Modulus at 100 % (S2-dumbbell)	0,37 N/mm^2
Tensile strength (S2-dumbbell)	1.2 N/mm^2
Ultimate elongation (S2-dumbbell)	487 %
Movement capability	20 %