

WACKER® GP-N - GENERAL PURPOSE NEUTRAL

WACKER Brand

WACKER® GP-N - GENERAL PURPOSE NEUTRAL is a one-part, neutral silicone sealant with outstanding adhesion to most building substrates. It further exhibits good weather resistance and workability for glazing. WACKER® GP-N - GENERAL PURPOSE NEUTRAL cures at room temperature in the presence of atmospheric moisture to give a permanent flexible silicone rubber.



Properties

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

Technical data

Properties Uncured

| Property | Condition | Value | Method |
|----------------------------|-----------|------------------------|------------------------|
| Density | 23 °C | 1.37 g/cm ³ | ISO 1183-1 A |
| Consistency | - | non-sag | ISO 7390, profile U 20 |
| Extrusion rate - mass flow | - | 390 g/10s | internal method |
| Skin formation time | - | approx. 10 - 30 min | internal method |

These figures are only intended as a guide and should not be used in preparing specifications.

Properties Cured

| Property | Condition | Value | Method |
|-----------------------------------|-----------|------------------------|---------------|
| Modulus at 100 % (S2-dumbbell) | - | 0.57 N/mm ² | - |
| Modulus at 100 % elongation | - | 0.6 N/mm ² | ISO 8339 |
| Hardness Shore A | - | 39 | ISO 868 |
| Tensile strength (S2-dumbbell) | - | 1.1 N/mm ² | ISO 37 type 1 |
| Tensile strength (joint) | - | 0.69 N/mm ² | - |
| Ultimate elongation (S2-dumbbell) | - | 470 % | - |
| Ultimate elongation (joint) | - | 250 % | - |

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Exterior Applications
- General Purpose & Sanitary Applications
- Interior Applications
- Silicone Sealants WACKER Brand

Application details

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.

Restrictions on use

WACKER® GP-N - GENERAL PURPOSE NEUTRAL is not recommended for sealing of aquarium or for long term use under water. WACKER® 121 - AQUARIUM has been specifically developed for aquarium applications.

WACKER® GP-N - GENERAL PURPOSE NEUTRAL is not suitable for food grade applications where the joints are likely to come in contact with food. For this application please use WACKER® 120 – FOOD CONTACT. WACKER® GP-N - GENERAL PURPOSE NEUTRAL is not suitable for the following plastic substrates such as Polyethylene, Polypropylene, ABS, Acrylic, Polycarbonate (PC).

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. WACKER 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 WACKER® GP-N - GENERAL PURPOSE NEUTRAL 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.

Packaging and storage

Packaging

WACKER® GP-N - GENERAL PURPOSE NEUTRAL is usually supplied in standard size cartridges that fit all standard caulking guns.

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.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

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.

QR Code WACKER® GP-N - GENERAL PURPOSE NEUTRAL



For technical, quality or product safety questions, please contact:

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