

GENIOSIL® N45

FLEXIBLE ASSEMBLY ADHESIVE

Product description

GENIOSIL® N45 is a one-part, high-modulus, neutral-cure all-purpose adhesive and sealant based on a hybrid polymer. It exhibits outstanding adhesion, excellent storage stability and very good processing properties.

Properties

GENIOSIL® N45 cures at room temperature in the presence of moisture to form a permanently flexible product.

Special features

- solvent-free
- isocyanate free
- phthalate free
- tin free
- virtually odorless
- all-purpose
- easy to process from +5 °C to +40 °C
- stable at temperatures from -40 °C to +80 °C
- tack-free and highly elastic after curing
- suitable for adhesion to many different surfaces, even without a primer
- non-corrosive
- paintable
- weatherable and highly resistant to media such as mineral oils, solvents, acids and alkalis

Application

- for construction, industry and fixation
- for flexible bonding of a wide variety of materials, such as wood, glass, metals, plastics or mineral-based substrates
- for stress-relieving bonding and fixation.

Processing

Substrates must be clean and free of dust and grease. The form of application will depend on the type of container chosen and the job in question. The adhesive can be squeezed out through a cartridge nozzle or applied to larger areas with a trowel.

It requires moisture in order to cure. The adhesive should therefore be applied in bead form to moisture-impermeable substrates, or else these should be moistened prior to bonding.

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.

Registration (selected countries / regions)

Listed on or in accordance with the following inventories:

EINECS - Europe
ELINCS - Europe
TSCA - USA

Additional information

Data about GENIOSIL® N45 are based on current technical knowledge and experience. They do not exempt processors from running their own tests for the particular application field. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose. We therefore recommend you contact our technical support unit.

We will gladly carry out application-related tests.

It is important to ensure compatibility with adjacent materials (that contain plasticizers, for example, or release gaseous emissions). This may require clarifying with the manufacturer before such materials are used.

A drop in temperature or humidity, poor air flow or unusually deep joints may slow curing.

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>.

Product data

Specification data	Inspection Method	Value
Extrusion rate		4 - 9 g/10s
Skin forming time at 23 °C / 50 % r.h.		20 - 50 min
Appearance		positive

Typical general characteristics

Typical general characteristics	Inspection Method	Value
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Product data (uncured)

Color		white
Density		1,5 g/cm ³
Consistency	ISO 7390	non-sag

Properties cured (14 days at 23°C/50% relative humidity)

Tensile strength	ISO 37 – rod1	1,7 N/mm ²
Elongation at break	ISO 37 – rod1	400 %
Modulus at 100 % elongation	ISO 37 – rod1	1,1 N/mm ²
Hardness Shore A	ISO 868	50
Tear strength	ISO 34 – C	9 N/mm

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

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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