WACKER ® HS HYBRID SEALANT

SEALANTS AND ADHESIVES

Product description

WACKER ® HS HYBRID SEALANT is a high-modulus, paintabe all-purpose sealant suitable for sealing a variety of different substrates.

Properties

WACKER ® HS HYBRID SEALANT cures at room temperature in the presence of atmospheric moisture to give a permanent flexible rubber.

Special features

- almost odorless
- solvent-free
- isocyanate free
- phthalate free
- 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
- non-corrosive
- paintable

Application

- For connection joints that are subsequently painted
- For fixation where flexibility of the sealant is still required
- For sealing joints between a wide variety of materials, such as wood, glass, metals, plastics or mineral-based substrates
- For stress-relieving bonding and fixation

Adhesion
WACKER ® HS HYBRID SEALANT exhibits excellent primerless adhesion to a wide variety of materials such as wood, glass, metals, plastics or mineral-based substrates.

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

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.
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.

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.

Store dry and cool.

Packaging

WACKER ® HS HYBRID SEALANT is usually supplied in standard size cartridges that fit all standard caulking guns.

Additional information

WACKER ® HS HYBRID SEALANT meets following specifications:

- ISO 11600 F-25HM

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 methanol and ethanol are 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 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 rubber, however, can be handled without any risk to health.

Product data

Typical general characteristics	Inspection Method	Value
Cure type		Hybrid
Uncured / unvulcanized paste		
Density at 23 °C	ISO 1183-1 A	1,4 g/cm³
Consistency	ISO 7390	non-sag
Skin forming time at 23 °C / 50 % r.h.	internal method	approx. 20 - 40 min
Cured / vulcanized rubber		
Hardness Shore A	ISO 868	35
Modulus at 100 % (joint)	ISO 8339-A	0,7 N/mm²
Tensile strength (joint)	ISO 8339-A	2,2 N/mm²
Ultimate elongation (joint)	ISO 8339-A	600 %
Modulus at 100 % (S2-dumbbell)	ISO 37	0,85 N/mm²
Tensile strength (S2-dumbbell)	ISO 37	2,3 N/mm²
Ultimate elongation (S2-dumbbell)	ISO 37	520 %

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

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

Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München, Germany
info.silicones@wacker.com

www.wacker.com