

XHG-9179 Acetoxy Silicone Sealant

Product description

XHG-9179 is a one-component, acetoxy silicone sealant for general purpose applications.

XHG-9179 cures at room temperature by the action with atmospheric moisture to become a permanently flexible silicone rubber.

Features

- multiple colors available including clear,white,black,silver grey,etc.
- non-sag
- readily extrudable at low (+5°C) and high (+40°C) temperatures
- flexible at low (-40°C) and high temperatures (+100°C)
- excellent adhesion to most substrates

Application

Do-it-yourself applications, glazing of different windows and doors, caulking and sealing for decorative purpose.

Typical Data

uncured:

typical property	testing method	unit	value
density at 23°C	GB/T13477.2	[g/cm ³]	0.99
slump	GB/T13477.6	mm	none
extrusion rate at 23°C	GB/T13477.3	[ml/min]	180
curing rate at 23°C/50% r.h.	/	[mm/24h]	4-5
tack free time at 23°C / 50 % r.h.	GB/T13477.5	[min]	10-20

cured after 4 weeks' storage at 23°C / 50 % r.h. :

typical property	testing method	unit	value
tensile strength	GB/T13477.8	[N/mm ²]	0.50
elongation at break	GB/T13477.8	[%]	190
modulus at 100 % elongation	GB/T13477.8	[N/mm ²]	0.35
hardness	GB/T531	Shore A	21

(*Customized hardness from 14 to 27 Shore A)

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

Restrictions on use

XHG-9179 should not be used on substrates such as marble, concrete, fibrous cement and mortar, as the product releases acetic acid during curing.

XHG-9179 should not be used in contact with metals such as lead, copper, brass or zinc due to corrosion.

XHG-9179 should not be used in contact with pre-stressed polyacrylate elements as it may cause stress cracking.

XHG-9179 may be discolored in contact with some organic rubbers such as EPDM and neoprene.

XHG-9179 is not recommended for use on aquarium.

XHG-9179 is not recommended for use on natural stone, such as marble, granite and quartzite.

XHG-9179 is not recommended for structural glazing.

Processing

The substrate to be in contact with the sealant must be clean, dry and free of all loose material, dust, dirt, rust, oil, and other contaminants. Extrude the sealant with caulking gun to the working area and trim it before sealant cured. Do not touch the trimmed area again to avoid damage to aesthetic appearance.

Adhesion

XHG-9179 exhibits excellent primerless adhesion to most non-porous siliceous material, e.g. glass, tiles, ceramics, painted wood and some plastics.

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

The adhesion can be improved in many cases by pretreatment of the substrates with a primer. If adhesion difficulties arise please contact our technical service.

Storage

XHG-9179 has a shelf time of at least 12 months if stored under intact conditions in dry and cool place at below 25°C.

Storage beyond the shelf life 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.

Package

210L iron drum.

Safety information

During curing VOC 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. Cured silicone rubber, however, can be handled without any risk to health.

Keep out of reach of children.