



Adhesion Products AP102 General Purpose

Product description

AP-102 GP - is a one- component, acid-curing, low modulus silicone sealant for sanitary applications.

Special features

- suitable for use in sanitary areas
- non-sag
- ready gunnability at low (+ 5 °C) and high (+ 40 °C) temperatures
- flexible at low (- 40 °C) and high temperatures (+ 100 °C)
- rapid crosslinking: quickly becomes tack-free
- excellent tooling properties for professional use

Application

- sealing of connecting and expansion joints in indoor applications and for bonding and mending tasks
- sealing of joints exposed to high levels of moisture, e.g. in sanitary areas or bathrooms

Restrictions on use

- AP-102 GP - must not be used for insulating glass applications.
- AP-102 GP must not be used for structural glazing bonding.
- It is the responsibility of the user to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coating materials (paints, varnishes and glazes) or organic plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant. Materials in direct contact with the applied sealant like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance. Because of the multitude of these materials, Titan cannot make a general statement to the compatibility of materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests.

-AP-102 GP - is not recommended for use on natural stones, such as marble, granite, quartzite, as it can cause staining.

- AP-102 GP - should not be used on substrates such as concrete, fibrous cement, and mortar, as the product releases acetic acid during.

-AP-102 GP - should not be used in contact with metals such as lead, copper, brass or zinc due to corrosion.

-AP-102 GP - is not recommended for sealing of aquaria or for longer-term use under water.

- AP-102 GP - is not suitable for food grade applications where the joints are likely to come in contact with food.

- AP-102 GP - is not suitable for use as a mirror adhesive.

- The time until complete curing may be extended at lower temperature, lower humidity, increasing film thickness or by low volume of air exchange.

- The use of tooling agents should be avoided if possible. Otherwise, water or a diluted solution of a little neutral soap or alcohol in water should be sparingly applied.

Adhesion

AP-102 GP - exhibits excellent primerless adhesion to most material used for sanitary application, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker; varnished or painted wood; and some plastics.

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

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 a clean, lint-free, cotton cloth. Remove residual solvent before it evaporates with a fresh clean, dry cloth.



Storage

AP-102 GP is a perishable material. It is recommended to use within 9 months of the manufacturing date printed on the cartridge 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

During vulcanization acetic acid 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.

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

Product data

Typical general characteristics	Inspection Method	Value
Product data (uncured)		
Density at 23 °C	ISO 1183-1 A	1,01 g/cm ³
Consistency	ISO 7390, profile U 20	non-sag
Extrusion rate - volume flow at 23 °C		500 ml/min
Skin forming time at 23 °C / 50 % r.h.		20 min
Product data (cured)		
After 4 weeks storage at 23 °C / 50 % rh		
Tensile strength	ISO 8339	0,7 N/mm ²
Elongation at break	ISO 8339	250 %
Modulus at 100 % elongation	ISO 8339	0,38 N/mm ²
Hardness Shore A	ISO 868	18
Movement capability	ISO 11600	25 %
Tear strength	ISO 34, method C	4,5 N/mm

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

The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.

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

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

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