

HT300

GASKET MAKER

1 - Description

Akfix HT300 is a high-performance silicone sealant developed for sealing, bonding and repairing works where heat resistance is required. It is an ideal sealant for high temperature construction applications. It reacts with atmospheric moisture to produce a tough, elastic silicone.

2 - Properties

- Excellent heat resistance after curing up to 250 °C permanently and up to 300°C temporarily.
- 100% silicone,
- Remains flexible at low (-40 °C) and high (+250 °C) temperatures,
- Resists to mechanical enforcement after curing,
- Acetoxy cure, RTV silicone,
- Will not crack, shrink or become brittle,
- One component.

3 – Application Areas

- Sealing and bonding applications in automotives,
- On heating systems and ovens for sealing / tightness,
- Sealing and bonding in stoves,
- Gaskets in pumps and motors,
- Sealing chimneys,
- Other bonding and sealing applications where parts must perform at high temperatures.

4 - Storage and Shelf Life

Packaging	310 ml, 85gr, 50gr
Shelf Life	15 months
Storage Conditions	Store in its unopened original package in a cool and dry conditions between +5°C and +25°C
Color	Red, Black, Blue, Grey (310 ml) Red, Black (Blister-85 gr) Red,Black(Blister-50gr)

5- Technical Properties

	Method / Condition	Value
Basis		: Silicone Polymer
Curing System		: Acetoxy
Density		: 1.05 ± 0.03 g/ml
Shore A Hardness	After 28 days	: 24–30
Tensile Strength	ASTM D412 23°C, 50% R.H.	: ≥ 1.5 N/mm ²
Skin Formation	23°C, 50% R.H.	: 7–13 min
Curing Rate	23°C, 50% R.H.	: Min. 3 mm/day
Elongation at Break	ASTM D412	: ≥ 250%
Elastic Recovery	ISO 7389	: ≥ 60%
Sagging	ISO 7390	: 0 mm
Application Temperature		: +5°C to +40°C
Temperature Resistance		: -40°C to +300°C

Consumption (approx.)

Joint Width	6mm	9mm	12 mm
Joint Depth	6mm	6mm	6 mm
Efficiency /310 ml	8 meters	6 meters	4 meters

Surface Preparation

Following cleaning procedure and materials are recommended:

Aluminium, light alloys and stainless steel	Degrease with alcohol or MEK
Other Metals	Lightly abrade then degrease as above
Plastics	Degrease using an agent recommended by plastics manufacturer
Concrete and other alkaline Surfaces	Brush and remove dust

6 – Standards

Meets or exceeds the requirements of the following specifications:

- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.

7- Instructions

- Ensure that surfaces to be sealed are clean, dry and grease free.
- The application temperature must be between +5°C and +40°C.
- In order to reduce the deformations of the joints, their depth must be much less than their width, minimum dimensions are 5x5 mm, for wider joints the depth should be preferably half of the width and it is adjusted by the use of a backup material.
- After the application, the sealant must be tooled with light pressure within 5 minutes to spread the material against the joint surfaces and to obtain a professional finish.
- Excess uncured sealant may be cleaned with solvent. Cured sealant can be removed barely mechanically.
- 6 mm. joint depth is recommended for joint widths between 6 mm to 12 mm.
- Joint width and depth ratio should be about 2:1.

8- Restrictions

- It must not be used in totally confined spaces where sealant cannot cure due to lack of atmospheric moisture.
- Not recommended to use on porous surfaces like marble, natural stone, concrete etc.
- Because of acidic curing, it must not be used on mirrors and sensitive metals like copper, brazen, lead.
- Not over paintable.
- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- Not appropriate for parts that are in continuous contact with fuels or surfaces that may bleed oils.

9- Safety & Disposal

Inhalation of the sealant vapor for a long period must be avoided. The application area must be ventilated properly. The uncured sealant must not be contacted for a long period. Cured silicone rubber bears no risk to health. temperatures between +5°C and +25°C. Check MSDS guidelines for disposal and further information concerning safety.

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