TECHNICAL DATA SHEET

9700 Neutral Cure RTV Silicone

OVERVIEW

Tigerhawk ® 9700 is a one-component, neutral-curing, ready-to-use silicone elastomer. Quickly cures with moisture in the air at room temperature to form a flexible and strong seal.

FEATURES

- Neutral curing non-corrosive.
- Low odor.
- Excellent weather hability and resistance to displacement.
- Good adhesion to most materials for industry.
- Creates a waterproof seal.
- Excellent for indoor and outdoor applications.
- UV Resistance.

APPLICATIONS

- Refrigeration systems manufacturing & installation.
- Trailer Manufacturing.
- HVAC Applications.
- Electronic Applications.
- Lead Wire Entry Installation.
- Marine Application.
- Other general required industrial uses.

COMMON SUBSTRATES

Tigerhawk ® 9700 is suitable for bonding and sealing materials such as aluminum alloy, stainless steel, glass, ceramic, plastic, steel, aluminum, sheet metal, concrete etc.

PHYSICAL PROPERTIES

Item		Technical requirement	Test results
Sealant type		Neutral	Neutral
Slump	Vertical	≤3	0
	Level	Not deformed	Not deformed
Extrusion rate, g/s		≤10	8
Surface dry time, h		≤3	0.5

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Durometer haardness (JIS Type A)		20-60	44
Max tensile strength elongation rate, 100%		≥100	200
Stretch adhesion Mpa	Standard condition	≥0.6	0.8
	90°C	≥0.45	0.7
	-30°C	≥0.45	0.9
	After soaking	≥0.45	0.75
	After UV light	≥0.45	0.65
	Bond failure area, %	≤5	0
Heat aging	Thermal weight loss, %	≤10	1.5
	Cracked	No	No
	Chalking	No	No
Operating temperature, °C		50 to +150	
Mechanical properties at 2mm thickness*	Modulus at 100% elongation, Mpa		0.7-0.9
	Tensile Strength, MPa		1.2

*At 23 °Cand 50% relative humidity

INSTRUCTIONS

Tigerhawk ® 9700 is suitable for bonding and sealing materials such as aluminum alloy, stainless steel, glass, ceramic, plastic, steel, aluminum, sheet metal, concrete etc.

Seam size:

Displacement of the sealant and local regulations must be considered. Unless otherwise required, the ratio of seam width to depth is generally 2:1.

Surface treatment:

All surfaces to be bonded must be clean, dry and free of dust, oil, grease, old sealants and other traces of contaminants that may affect adhesion.

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Surface treatment：
All surfaces to be bonded must be clean, dry and free of dust, oil, grease, old sealants and other traces of contaminants that may affect adhesion. The surface should be cleaned with the "two rags" method. First remove the oil with a cloth soaked with solvent, and then wipe it with a clean cloth. Dust is removed by oil-free compressed air.

Primer：
For most substrates, Junbond® JB-9700 does not require a primer. Test on a questionable surface before deciding whether to use a primer.

Operation：
In order to obtain good performance, it is important that the sealant only adheres to both sides of the substrate. To achieve this, a backing material (closed-cell polyethylene or open-cell polyurethane foam) is required. Use continuous sizing equipment to ensure that there are no air bubbles or voids in the seams. Before skinning, use a spatula to lightly squeeze and trim the sealant to fill the joint surface. Remove excess uncured sealant with a dry cloth or a cloth moistened with a solvent. The cured sealant can only be scraped off with a spatula (ie blade), or it can be removed with a special silicone remover.

PACKAGE	Tigerhawk ® 9700 packaging is 300ml * 24 sticks / carton, 500ml * 20 sticks / carton.
SHELF LIFE	Stored in a cool, dry environment below 27 ° C, the standard shelf life of Tigerhawk ® 9700 is 12 months from the date of manufacture. Please refer to the storage recommendations and expiration dates on the packaging. After this date, the product will no longer be guaranteed to meet sales targets.
SAFETY	Refer to Tigerhawk ® 9700 Safety Data Sheet.