

TECHNICAL INFORMATION



* High Density Silicone RTV (HR-PS-140)

HR-PS-140 is two-component type of liquid silicone RTV developed by HRS CO., LTD. Excellent fire-sealing, flood-sealing, ventilation-sealing, and compartment pressurization-sealing. Especially, it is characterized by having a radiation-blocking function. It has been certified as a qualified material for nuclear power plants by Korea Hydro & Nuclear Power Co., Ltd.

• FEATURES

- After part A and Part B are stirred for 5 minutes respectively and mixed at the mixing ratio of 1:1 in terms of weight or volume for 3 to 5 minutes, it would take 24 hours to be completely cured (snap time: about 40 to 60 minutes). There might be a slight difference depending on temperature.
- Sealing material for opening of fire barriers or penetration parts.

PROPERTIES

Typical Properties		Part A	Part B
Before curing	Main components	Silicone	Silicone
	Color	Black	Whitish
	Specific Gravity(23℃)	≥2.25	≥2.25
	Mixing Ratio	1 : 1	
	Working time after mixing	30 minutes	
	Time for complete cure	24 hours	
	Storage Temperature Range	32℃ Max.	
After curing	Color	Dark Gray	
	Density	≥140 lb/ft ³	
	Service Temperature Range	-70℃~200℃	
	Oxygen Index	>28	
	Toxicity	None	
	Fire resistance	T/F Class(FS 012, KSF 2842, UL-1479, ASTM E-814)	
	Radiation resistance	1×10 ⁸ Rad(ASTM E-1027)	
	Flood Seal	≤0.01Gallon/Mim.@15psi	
	Compartment Pressurization	≤0.001CFM/ft/psi@Steam pressure difference 8psi	
	Ventilation Seal	No leakage with 5" of water pressure head	
	Flame Spread Index (ASTM E-84)	25 or less	
	Asbestos Free	Yes	
	Halogen Free	Yes	