

Technical Specification

DUCT SEALANT

Sr. No.	Characteristics	Result
1	Colour	Gray/white/Black
2	Application Consistency	Thick Paste & can be used with Brush Or Cartridge Gun
3	Application Weight (Specific Gravity)	1.40 ± 0.05
4	Average non-volatile	75% ± 2%
5	Coverage Range Brush	60 Percent
6	Drying time	Touch Dry -1 Hours Through Dry - 24 Hours
7	Service Temperature Limits	-5 C° to 60 C°
8	Flammability Test (Underwriters Lab inc.)	UL - 94 HB Class - Test Passes
9	Contamination of Lead, Silicon, Mercury	Does not Contain Lead, Silicion & Mercury Test as per IS-9833-1981.
10	Volatile Organic Compound (V.O.C)	Zero Percent

For Industrial Use Only



UDSG 70-71 DUCT SEALANT



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UDSG 70-71 Duct Sealant is highly elastic, flexible and tough adhesive material being used at outdoors and indoors as water and solvent vapor barrier at low, high as well as medium velocity air conditioning, air movement ducts.

UDSG 7071 is specially formulated duct sealant for high end duct lines where more and more movement of humans is expected.

It perfectly seals any joints for leak proof movement of sterilized as well as hygienic filtered air. It is a water base material so releases only water vapour. It does not emits acid/alkaline vapor which can harm humans or corrode M.S. duct lines.

It does not lose its flexibility for years at any harsh temperature / climatic condition. It has got very good weather resistance and not possible to detach from base metal once it is cured.

It is formulated so that, it can use at any international standard duct lines. For pharma, food or any other HVAC duct lines.

MERITES OF DUCT SEALANT

Duct Sealant is used for movement of hygienic air, where as silicon being hazardous, not suitable.

All over the world silicon is banned because of its hazardous nature, where as Urja duct sealant is food grade material.

Urja duct sealant is priced competitively. It is cheaper than silicon sealant.

Does not contain silicone, Lead Mercury.

Zero percent V.O.C.

Silicone free material.

Long life permanent elastic.

Easy to use.

Permanent flexible and stable temperature from -10° C to 220° C.

Good weather ability.

Long shelf life with Not exposed to direct sunlight material remains unchanged for one year

Important –the information contained herein we believe is correct to the best of our knowledge and tests.

The recommendations and suggestions herein are made in accordance with the specifications in effect on the date of manufacture.

LIMITATION

Store and apply between 40 °F)4°C(, 100°F)38°C(Protect from freezing. Always test foil and paper facing for acceptable adhesion. If used between two impermeable surfaces, drying time will be extended.

To resist rain wash-off allow at least 12-15 hours drying time above 40 °F)4°C(with a relative humidity of 50 % . Higher humidity or lower temperature may retard drying. Outdoor horizontal surfaces must always drain completely. A pitch of at least ¼ inch per foot) 2 cm/m(is required.

It has got weak resistance to petroleum solvents, if is in contact with for prolonged period.

MATERIAL PREPARATION

Apply only to clean,dry,oil-free surfaces. Keep container closed when not in use. Do not thin.

APPLICATION

Apply by brush, cartridge gun, trowel or extrusion. On spiral duct apply a thick coat of URJA duct sealant to male end of the coupling prior to slipping the straight run of spiral duct over it. Brush excess Urja duct sealant over the exterior of the joint and over the heads of all metal screws after they are in place and the joints is mechanically fastened. On the flanges of rectangular ducts both flange faces should receive a coat of URJA Duct Sealant before joining with the flange gasket. Join and bond while sealant is still wet (0-5 minute). Does not exceed 1/8” (3.2mm) wet film thickness.

Apply to clean, dry, oil free surfaces by brush, trowel, or power extrusion. Cut the extrusion nozzle to the required shape .extrude the material using extrusion gun and seal the gaps .If gaps are not sealed properly use mechanical device to give required size and shape. Allow the completed joint to dry at least 24 hours above 70 F (21 C)before pressure testing. USDG -7071 duct sealant is suitable for any duct line such as pharma clean room, as well as commercial and industrial duct lines. It seals any joints as it is elastomeric material which seals structure joints.

Power Extrusion

Urja Duct Sealant may be applied using a wide variety of power (Pressure) extrusion equipment suitable for use with sealant. It is a soft buttery gel with a typical viscosity range of 1, 30,000-1, 60,000 cps.

Corrosion resistant pumps and fitting are suggested.

Clean-Up

Use fresh water to clean brushes and equipment before product dries. Dry products may be removing with hot soapy water or strong solvent such as chlorinated solvent (non-flammable) or xylene (flammable).