



Thermal Insulation Chemicals

TIC CORPORATION

Product Data Sheet

TIC 8010

Flexible Sealant

Description

TIC 8010 Flexible Sealant is a fast setting, elastomeric compound designed as a joint sealant for high velocity air conditioning ducts installed indoors. It may be used with or without reinforcing tapes. It has a mild “paint type” odor and applies cleanly without stringing. Mechanical fasteners of the type and number normally used for duct assemblies are required to provide rigidity to the duct system.

TIC 8010 Flexible Sealant is also used to seal gaskets where flexibility is required. It can be used to adhere duct fabrics and flexible tubing runouts to high velocity ducts and to mixing boxes or air diffuser heads.

TIC 8010 Flexible Sealant contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	Gray	TSTM-01
Application	Brush, caulking gun, or power extrusion equipment	TSTM-06
Density	1.12 ± 0.05 kg/ℓ (9.3 lbs/gal)	ASTM D 1475
Volume non-volatile	56 ± 1 %	ASTM D 1644
Weight non-volatile	68 ± 1 %	ASTM D 1644
Coverage	Brush 2.40 kg/m ² (2.14 ℓ/m ²) Dried film thickness: 1.2 mm Caulking gun (310mℓ tube) 3.2mm bead: 38 m / 6.4mm bead: 9 m	TSTM-07
Drying time	Set to touch: 2 hours Dry through: 36 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -40°C ~ 93°C (-40°F ~ 200°F)	TSTM-04
Wet flammability	≤ -7°C (20°F)	ASTM D 3278
Fungal growth resistance	Rating=0, no fungal growth on surface. (Please refer to the picture on the next page.)	ASTM G 21
Surface burning characteristics	Classification: CLASS A Flame spread: 0 (0~25) Smoke developed: 0 (0~450) Surface: Applied over fiber reinforced cement board at a coverage rate of 26.7 sq. ft/gal (0.66 m ² /ℓ)	ASTM E 84

Limitations

Store and apply between 4 °C (40 °F) and 38 °C (100 °F).

Always test plastic materials for compatibility when using a solvent base product.

Systems may be pressure-tested 36 hours after application, above 16°C (60°F).

Make sure this product is completely dry and the area free from solvent odor if food is involved.

For outdoor application select TIC 8020, 8030 or top coat 8010 with a UV resistant finish.

Material Preparation

DO NOT THIN. Stir well, but do not use sticks or boards which would splinter or otherwise contaminate the product. Apply only to clean, dry, oil-free surfaces. Keep container closed when not in use.

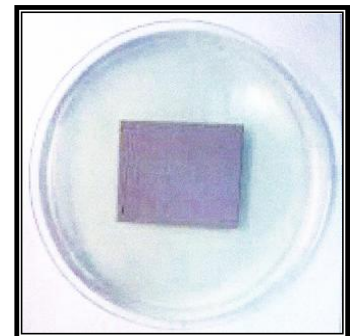
Application

- 1. Brush** - On spiral duct, apply a thick coat of TIC 8010 Flexible Sealant to the male end of the coupling prior to slipping the straight run of spiral duct over it. Brush excess TIC 8010 over the exterior of the joint and over the heads of all metal screws after they are in place and the joint is mechanically fastened. On the flanges of rectangular ducts both flange faces should receive a coat of TIC 8010 Flexible Sealant before joining with the flange gasket. Join and bond while sealant is still wet (0 ~ 3 min.). If the material should skin on the surface after application, this may be broken by a slight twisting action of the metal duct or a fresh application over the first coat.
- 2. Power extrusion** - TIC 8010 Flexible Sealant may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with solvent base sealants. Average viscosity is 150,000 - 250,000 cps.

Clean-up

Use a solvent such as chlorinated solvent (non-flammable) or mineral spirits (flammable) for cleaning tools and equipment.

Fungus	<i>Aspergillus niger</i> ATCC 6275 <i>Chaetomium globosum</i> ATCC 6205 <i>Penicillium funiculosum</i> CMI ATCC 114933 <i>Paecilomyces Variotii</i> ATCC 18502 <i>Aspergillus terreus</i> QM 82j <i>Aureobasidium pullulans</i> ATCC 9348 <i>Penicillium ochrochloron</i> ATCC 9112 <i>Scopulariopsis brevicaulis</i> CMI 49528
Test condition	29 ± 1 °C (84 ± 2 °F), RH 85%, 6weeks
Sample size	25 cm × 25 cm



Note

Important: We make no other warranties and expressly disclaim any warranties of merchantability or fitness for a particular purpose. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. Our acceptance of any orders for the product is expressly conditional upon purchaser's assent to the terms on the applicable invoice.

Adequate Tests: The information contained herein we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be performed by you to determine if this product meets all of your requirements. The shelf life can be affected by storage and handling conditions. When products are stored in the original unopened container in an enclosed area and protected from contamination, moisture and extreme temperatures, the warranted shelf life is twelve months from the date of shipment to the original purchaser.