

Product Data Sheet TIC 8030 Anti-Fungus Sealant

Description

TIC 8030 Anti-Fungus Sealant is fire resistive, water-based, indoor/outdoor, UV-resistant, non-fibrated sealant for use on low, medium and high velocity ducts to form an extremely flexible, yet durable seal against air leakage. It is supplied in a special thixotropic consistency that allows easy application by brush, glove, trowel, power extrusion or caulking gun.

TIC 8030 Anti-Fungus Sealant may be pressure tested within 16 hours dry time above 21 °C (70 °F). It quickly forms a strong bond to galvanized, aluminum or mild steel metal ducts.

TIC 8030 Anti-Fungus Sealant is ideal for sealing ASJ, FRK, and FSK jackets and board facings at joints, laps and over staple and weld pin punctures, and for sealing flexible air ducts to rigid connectors.

TIC 8030 Anti-Fungus Sealant contains no asbestos, lead, mercury, or mercury compounds.

Properties

Property	Specification	Test method
Color	Gray	TSTM-01
Application	Brush, trowel, glove, caulking gun, or power extrusion	TSTM-06
Density	1.40 ± 0.05 kg/ℓ (11.7 lbs/gal)	ASTM D 1475
Volume non-volatile	56 ± 1 %	ASTM D 1644
Weight non-volatile	70 ± 1 %	ASTM D 1644
Coverage	Brush/Trowel/Glove 2.00 kg/m ² (1.43 ℓ/m ²) Dried film thickness: 0.8 mm Caulking gun (310mℓ tube) 3.2mm bead: 38 m / 6.4mm bead: 9 m	TSTM-07
Drying time	Set to touch: 1 hour Dry through: 16 hours	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -7 °C ~ 93 °C (20 °F ~ 200 °F)	TSTM-04
Wet flammability	≥ 100 °C (212 °F), No flash to boiling	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 45 sq. ft/gal (1.1 m ² /ℓ)	ASTM E 84

Limitations

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

Be careful with freezing material until dry.

To resist rain wash off, allow at least 16 hours drying time above 4 °C (40 °F) with a relative humidity of 50 %. Higher humidity or lower temperatures may retard drying.

Always test foil and paper facings for acceptable adhesion.

Outdoor horizontal surfaces must always drain completely. A pitch of at least 1/2 inch per foot (4 cm/m) is required.

If used between impermeable surfaces, drying time will be extended.

Material Preparation

DO NOT THIN. Apply only to clean, oil-free dry surfaces. Keep container closed when not in use.

Application

1. **Brush/trowel/glove** - Uniformly coat the TIC 8030 Anti-Fungus Sealant at total coverage rate to be 1.2 m²/ℓ (wet film thickness: 0.8mm). Allow the completed joint to dry at least 16 hours above 21 °C (70 °F) before pressure testing. High humidities (over 70 %) and/or cooler temperature may retard drying.

Apply a continuous film of TIC 8030 Anti-Fungus Sealant over all areas of the indoor or outdoor duct system where air leakage may occur. A brush may be used to work the sealant into joints and remove excess. On spiral ducts apply a coat TIC 8030 Anti-Fungus Sealant to the male end of the coupling prior to fitting the straight run of spiral duct over it. Brush excess TIC 8030 Anti-Fungus Sealant over the joint to complete the seal. Screw holes and flanges should also be sealed with a coat of TIC 8030 Anti-Fungus Sealant. It may be applied to the inside or the outside of the duct.

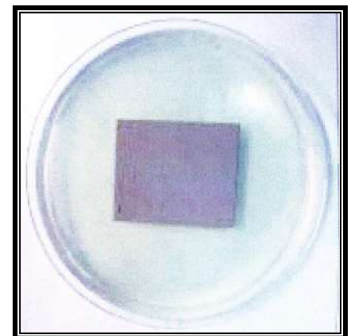
2. **Power extrusion** - TIC 8030 Anti-Fungus Sealant may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with water base sealants. It is a soft buttery gel with a typical viscosity range of 250,000 ~ 270,000 cps. Corrosion resistant pumps and fittings are suggested.

After it is completely dry, TIC 8030 Anti-Fungus Sealant may be top coated with good quality water base paint.

Clean-up

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

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.