

# PS-1 MASTIC®



## LOW TO HIGH VELOCITY AIR DUCT SEALANT

PS-1 Mastic® is a non-toxic adhesive-sealant used to permanently seal the fabricated joints and seams of thermal insulation, crawl space vapor retarders, and all air duct types including UL Listed air ducts. RCD Corporation® PS-1 Mastic® repairs damaged and leaking air ducts and seals conditioned spaces from air infiltration. Easily applied by brush, trowel, palm, spray or extrusion.



- Water-Borne & Non-Flammable
- Easy Application & Clean-Up
- Contains Ceramic Microspheres
- Low Odor - Low VOC
- Fire Resistant
- Weather Resistant
- Fiber Reinforced



## SPECS

wet film coverage at 50 mils x 3" wide	125 lineal feet per gallon
weight per gallon	11.0 lbs. ± 0.30 lbs
solids by weight	63% ± 2%
type	elastomeric terpolymer emulsion
color	tan
consistency	thixotropic, non sagging paste
cure to 4lbs. / in. tensile joint strength at 50% RH and 70° F	5 hours
service temperature limits	0° F to 180° F
shelf life	12 months (unopened container)
storage temperature	45° F to 90° F
packaging	1, 2 & 4 gallon recyclable plastic pails
clean-up when wet	soap & water
water vapor transmission rate ASTM E-96	0.52 perms
flash point-tag-encup ASTM D-1310	none
flame spread ASTM E-84	5
smoke developed ASTM E-84	0
UL-181A-M & UL-181B-M Mold Growth Test	Passed
volatile organic compound ASTM D-6886	less than 10 grams / liter
Meets All SMACNA Seal Classes	A, B, & C
Meets All SMACNA Pressure Classes	- 0.5", 1", 2", 3", 4", 6", and 10" wg.

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# PS-1 MASTIC®

Low to High Velocity Air Duct Sealant

Adheres to most construction surfaces, including but not limited to:

- Aluminum & Aluminum Foil
- Calcium Silicate Insulation
- Cellular Glass
- Cement Backer Board
- Closed Cell Foam Rubber
- Concrete & Masonry
- Drywall or Gypsum Board
- Fiberglass Insulation
- Foam-Plastic Insulation
- Galvanized Steel
- House Wrap
- Paper
- Polyethylene Plastic
- Polystyrene Foam
- Polyester Plastic
- Primed Steel
- PVC Plastic
- Spray Foam Insulation
- Stainless Steel
- Wood

PS-1 Mastic® qualifies for LEED credits via: EA Prerequisite 2 – Minimum Energy Performance, EA Credit 1 – Optimize Energy Performance, IEQ Credit 3 – Construction IAQ Management Plan, and IEQ Credit 4 – Low Emitting Materials.

## APPLICATION

Surfaces must be free from corrosion, dirt, grease, loose or chalking paint, mold, mildew, oil, scale, silicone, and water. No thinning or mixing is necessary; use directly from the pail. Easily applied by brush, trowel, palm, spray or extrusion equipment. Apply a tack coat of 25 – 35 mils thick (if fiberglass mesh is used, embed it into tack coat). Apply a finish coat 25 – 35 mils thick. For spray and extrusion applications, refer to RCD Corporation® Technical Bulletin “Spraying or Extruding RCD Products”. When used outdoors allow at least 8 hours dry time to resist wash off by rain.

## UL-181 LISTED RIGID FIBERGLASS AIR DUCTS

Application shall be by brush or trowel. Application rate: 17.8 to 26.7 square feet/gallon. Recommended thickness: 0.070” (70 mils) to 0.090” (90 mils) total (mastic, plus scrim, plus mastic). Minimum recommended set time is 20 hours. Since field temperature/humidity conditions may vary, longer set times may be required for specific installations. Embed a reinforcing membrane such as RCD Glasscoat (3” wide, 5 mil thick, 20 x 10 plain weave, fiberglass mesh) into a tack coat.



## UL-181 LISTED FLEXIBLE AIR DUCTS

Application shall be by brush. Application rate: 17.8 to 26.7 square feet/gallon. Recommended thickness: 0.070” (70 mils) to 0.090” (90 mils). Minimum recommended set time is 20 hours. Use with mechanical fasteners per Air Duct installation instructions.



## SHEET METAL AIR DUCTS

After starting the male fitting into the female fitting and prior to seating the joint; apply a 2” wide band of mastic 20 – 30 mils thick to the exposed part of the male fitting. Fully seat the joint and mechanically fasten with sheet metal screws or rivets. Next apply a 2.5” wide band of mastic 20 – 30 mils thick to the outside of the joint covering the screws or rivets and joint gap. Allow at least 12 hours drying time before starting system. Since temperature and humidity conditions may vary, longer dry times may be required for specific installations.

## PRECAUTIONS

It is the applicator’s responsibility for the design, use and storage of all building materials including PS-1 Mastics®. Store at recommended temperatures of 45°F to 90°F. Rotate inventory using the FIFO method. Protect from freezing. Do not dilute with any substance. Do not contaminate contents with foreign material. Do not apply below 38°F or above 120°F. High humidity will retard drying. Occupants, who are chemically sensitive, prone to allergic reactions, or have respiratory ailments of any kind, should not have mastics applied inside the air stream of their heating or cooling system without consulting their physician for approval. Do not exceed the service temperature limits of 0°F to 180°F.

**Keep out of reach of children.**

**If there is contact with eyes, flush with clean water and contact physician.**

## WARRANTY

RCD PS-1 Mastic® is warranted to do the work for which it is designed as set forth above. All other warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, are disclaimed. It is understood and agreed that seller’s liability, whether in contract, tort, warranty, negligence, personal injury, wrongful death or otherwise, shall not exceed the return of the amount of the purchase price paid by the purchaser and under no circumstances shall seller be liable for special, indirect or consequential damages. The price paid for the product is consideration in limiting seller’s liability.

### CATALOG NUMBER:

- 120004 . . . 4 gallon pail
- 120002 . . . 2 gallon pail
- 120001 . . . 1 gallon pail