

MasterWeld® 420

Rubber-based adhesive for foam insulation and wall panels

FORMERLY SONNEBORN® 200

PACKAGING

825 ml cartridges, 12 cartridges per carton

COLORS

Tan

YIELD

APPLIED AT ¼" (6 MM) BEAD SIZE:
83 lineal ft (25 m) / 825 ml cartridge

STORAGE

Store in unopened containers in a cool, dry area out of direct sunlight. MasterWeld 420 remains flexible even when stored at freezing temperatures.

SHELF LIFE

18 months

VOC CONTENT

2.31 lbs/gal or 310 g/L, less water and exempt solvents.

DESCRIPTION

MasterWeld 420 is a ready to use, multi-purpose synthetic-rubber based adhesive for bonding foam insulation and other wall panels to a variety of structurally sound substrates. It remains flexible for low temperature installations and provides fast initial bond strength.

PRODUCT HIGHLIGHTS

- Does not damage foam, which helps to ensure insulation values are maintained
- Flexible at wide temperature range, providing ease of installation even at low temperatures
- Multi-purpose formulation bonds to a variety of substrates, enabling its use as a general purpose construction adhesive
- Nonfreezing properties provide on site and storage flexibility

APPLICATIONS

- Bonding most foam insulation to itself or to structurally sound surfaces such as concrete, masonry, wood and metal
- On composition board, fibrous cement board, cement, and gypsum board
- Bonding gypsum wallboard or paneling to studs or furring strips

LOCATION

- Above grade
- Interior and exterior

SUBSTRATE

- Concrete
- Foam insulation
- Wood
- Masonry
- Cement
- Gypsum board
- Metal

Technical Data

Composition

MasterWeld 420 is a solvent-borne synthetic rubber adhesive.

Typical Properties

PROPERTY	VALUE
Base	Synthetic rubber resin
Viscosity	Trowelable mastic
Application	Caulking gun
Open time, min	Up to 20, depending on temperature and humidity
Application temp, ° F (° C)	35–120 (2–49)
Service temp, ° F (° C)	Up to 150 (66)
Flash point, ° F (° C)	0 (-18)

HOW TO APPLY

SURFACE PREPARATION

Surfaces must be structurally sound, dry, clean, and free from all loose materials, oil, and grease that could adversely affect adhesion.

APPLICATION

FOAM INSULATION INSTALLATIONS

1. Remove excess mortar and any other projections to provide a generally flat surface.
2. Apply MasterWeld 420 to back side of prefitted foam. Use a 1/4" (6 mm) minimum bead with polystyrene foam and a 3/8" (10 mm) bead with other foams. Apply adhesive around entire outer areas, approximately 2" (51 mm) from edge, and run a bead from top to bottom on the left and right sides, both about 18" (0.46 m) in from the edge.
3. Position foam immediately, pressing firmly over entire area to ensure complete adhesive transfer. Most applications require temporary mechanical fasteners.
4. Allow to dry a minimum of 72 hours before covering with other materials.

PANEL INSTALLATIONS

1. Apply a continuous bead to all furring strips, studs, and top and bottom plates.
2. Position prefitted panels and fasten with finishing nails top and bottom to ensure proper alignment. Continue this procedure until finished.
3. If installing panels to gypsum board, apply adhesive in a zig-zag pattern within 1-1/2" (38 mm) of vertical edges on each side and 2 vertical beads in the panel center, 16" (0.41 m) apart. Position panel immediately, pressing firmly over entire area to ensure complete adhesive transfer. Use finishing nails top and bottom to help bonding.

BONDING FOAM TO CEILINGS AND WALLS

1. At least 3 mechanical fasteners per 8 ft (2.44 m) board must be used.
2. Space 1 fastener 12" (0.31 m) from ends of the board and 1 in center of the board.

CLEAN UP

Remove excess adhesive with mineral spirits or naphtha.

FOR BEST PERFORMANCE

- Keep away from heat and open flame.
- When MasterWeld 420 is applied in or near areas containing foodstuffs, remove them before application and do not return them until all solvent vapors have dissipated.
- Solvent vapors can be objectionable to people unaccustomed to the odor; consult with building management before applying MasterWeld 420 in or around buildings occupied by nonconstruction personnel.
- Make certain the most current versions of product data sheet and SDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.basf.us, e-mailing your request to basfbscst@basf.com or calling 1(800)433-9517. Use only as directed.

**For medical emergencies only,
call ChemTrec® 1(800) 424-9300.**

LIMITED WARRANTY NOTICE

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