



Advanced Adhesive Technologies, Inc. Masterbond 188 Adhesive Specification Sheet

Description:

Masterbond 188 is a 0 VOC, fast tack adhesive designed for the installation of glue-down carpets. This non-flammable adhesive is protected by the CleanGuard® two-stage antimicrobial. CleanGuard® is a specifically formulated broad-spectrum, anti-microbial agent that protects our adhesives and sealers from microorganisms, such as mold or mildew, in both the wet and dry state.

Masterbond 188 is recommended for use with the following carpet backings: woven polypropylene (ActionBac®), polyurethane foam, jute, rubber, and needlepunch. Due to its non-staining formula, Masterbond 188 can be used to install felt backed sheet vinyl.

NOTE: This adhesive is not recommended for pure vinyl backed sheet goods or carpets.



Sub-floors must be flat and structurally sound. The sub-floor should be flat within 3/16" in 10' or 1/8" in 6'. All paint, varnish, oil, wax, finishes and any other bond inhibiting substances must be removed. Smooth or glazed surfaces must be abraded. Repair all joints and cracks with latex-based portland cement underlayment. Concrete sub-floors must be properly prepared according to the recommended practices detailed in the document ASTM F-710-11. Never sand existing resilient flooring that could contain asbestos. Follow all Federal, State and Local regulations relating to the removal of in-place, asbestos containing material. Very porous sub-floors must be primed with AAT-570 Primer/Sealer.

Masterbond 188 can be used over the following sub-floors with a maximum moisture emission rate of 3lbs/1000 sq ft. /24 hours [ASTM F1869-10], a pH of 7.0- 9.0 [ASTM F710-11], and a maximum *in situ* RH of 80% [ASTM F2170-09]:

- Concrete above, on or below grade
- APA rated plywood underlayment
- Properly prepared gypsum cement

NOTE: Concrete slabs on or below grade must have a functioning vapor retarder. This vapor retarder must be directly between the slab and the capillary break. Particleboard and OSB are **not** recommended underlayments. Strip or plank wood flooring, particleboard and OSB sub-floors should be covered with an approved plywood underlayment (minimum thickness of 1/4"). Before beginning installations with flooring types or over sub-floors not listed contact AAT Technical Services for recommendations. While some Lauan plywood panels are widely marketed as "underlayments", there are a variety of qualities and species sold as such. Some varieties present severe problems when used as underlayments. Frequent problems noted are discoloration, indentation, bond failure, and underlayment delamination. AAT will not warrant the adhesive when applied over Lauan plywood. Regulations may require that existing flooring material or coatings be tested to determine the asbestos content. Refer to the instructions for removal and handling of resilient flooring published by the RFCI in the publication, *Recommended Work Practices for Removal of Resilient Floor Coverings*. The Resilient Floor Covering Institute may be reached thru their Website www.rfci.org or by calling 301-340-8580.

Typical trowels and approximate coverage's: [width x depth x space]

Woven polypropylene and rough backed carpets: 1/8" x 1/8" x 1/8" U-notch, 90-110 sq. ft. /gal.

Attached cushioned and smooth backed carpets: 3/32" x 3/32" x 3/32" V-notch 115-135 sq. ft. /gal.

Sheet vinyl: 1/16" x 1/16" 1/16" U-notch 125-150 sq. ft. /gal.

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Specific Technical Data:

- A. Base: Latex-resin emulsion
- B. Color: Yellow-Tan
- C. VOCs: 0 g/l (Calculated per Ca. Rule 1168)
- D. This adhesive should not be used for exterior installations. Use AAT-383 or AAT-290 for exterior installations.
- E. Clean-up: Remove wet adhesive with water and mild soap solution. Use AAT-197 Adhesive Remover to remove dried adhesive. Dried adhesive may be more difficult to remove; therefore, take care to remove adhesive from the surface of the flooring before it dries. DO NOT apply the solvent directly to the flooring material.
- F. Freeze-Thaw Stable (Stability and spread-ability can be reduced if frozen. For best results, do not allow to freeze.)
- G. Shelf-Life: Minimum of 12 months from date of manufacture in an un-opened container when stored at 70°F.
- H. Size: 4 gallon pails

Installation Recommendations:

Prior to the start of the installation the installer must determine that the job-site conditions meet or exceed all applicable standards of the floor covering manufacturer and AAT

1. Flooring materials and adhesive must be stored in a pre-heated building where room temperature should be no less than 65°F for a minimum of 24 hours before the installation begins. Adequate ventilation should be available at the installation site. The HVAC system for the building should provide a consistent air temperature of 65°-75°F and relative humidity levels should be between 35-55% for a minimum of 48 hours prior to and for 72 hours following the installation. The temperature of the sub-floor should be 65°- 90°F during the installation. Do not allow the temperature of indoor carpeted areas to fall below 50°F, regardless of the age of the installation.
2. Apply the adhesive with the appropriate trowel (see above.)
3. Allow the adhesive to tack properly before placing the flooring into the wet-tacky adhesive. Temperature and relative humidity will affect the tack and working time of the adhesive. Occasionally, lift the carpet or flooring to assure that a 100% adhesive transfer is achieved.
4. Seal seams and edges with an appropriate seam adhesive to prevent raveling and to maintain the appearance of the carpet. (i.e. AAT-181, AAT-125)
5. Lay floor covering into the adhesive as to minimize air bubbles and wrinkles.
6. Roll flooring to ensure adequate transfer (Sheet vinyl-75-100 lbs.; Carpet-50-75 lbs.) Roll from centers to edges, forcing out air pockets.

NOTE: We recommend installers follow the guidelines set forth in CRI's *Carpet Installation Standard*. Before placing the carpet or flooring the adhesive must be allowed an open or dwell time appropriate for the flooring, backing, jobsite and sub-floor conditions. It is extremely important to maintain recommended notch depth, width and spacing. The proper notch depth is that which will produce adhesive ridges that affect a 100% transfer to both the substrate and the carpet backing to include the inner recesses of the texture of the back.



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