Specification Sheet
Milliken Non-Reactive Standard
High Moisture Modular Carpet Pressure Sensitive Adhesive
(4-gallon or 15.1L size)

Milliken Non-Reactive Standard Modular Carpet Adhesive is an acrylic emulsion adhesive specially formulated for use with Milliken Modular Carpets. This formulation contains no reportable solvents and meets or exceeds all CRI "Green Label" requirements. While providing a high degree of tack and resistance to lateral movement, it will also allow removal of the carpet tiles to facilitate access to electrical lines, telephone lines, etc. as well as allowing for the replacement of worn, damaged or stained tiles.

PRODUCT DESCRIPTION

Packaging	15.14L
Net Contents	14.85kg
Base	Acrylic Emulsion
Color	Wet: Mint Green Dry: Maintains a green tint
Consistency	Thin Syrup
Solvent	No; Water based
Solids	58% by weight minimum
Flammability	Non-flammable in wet state
Storage	Adhesive and carpet modules must be stored between 4°C and 38°C
On Site	Carpet, adhesive and area must be conditioned to between 15°C and 32°C for 24 hours prior to, during and after installation.
Freeze-thaw	Protect from freezing.
Shelf Life	Two years stored in original container tightly sealed
Set-Up Time	Varies with humidity temperature and air velocity
Bonding Duration	Indefinite when kept clean
Clean-up from Carpet	Water when still wet – safety solvent when dry

MULTIPLE CLEANINGS MAY BE REQUIRED TO EFFECTIVELY REMOVE DRIED ADHESIVE FROM THE FACE OF THE CARPET. IN SOME CASES WHERE THE ADHESIVE HAS BECOME EMBEDDED IN THE FIBER, IT MAY BE NECESSARY TO REPLACE THE TILE IN QUESTION.

No guarantee or warranty, either expressed or implied, is to be inferred from the information presented in this literature.

FLOOR PREPARATION GUIDELINES

ALWAYS REFER TO AND FOLLOW THE INSTALLATION INSTRUCTIONS PROVIDED WITH THE CARPET IF THERE ARE QUESTIONS.

NOTE: The following are guidelines only. Financial responsibility for bringing any floor into conformance with these guidelines must be determined prior to beginning work. The installation contractor cannot be held responsible for structural problems with the subfloor.

- Floor preparation in accordance with the latest edition of AS/NZS 2455.1&2 unless specifically allowed per this document.
- All topical membrane-forming concrete curing compounds must be removed prior to the application of adhesive.
- Concrete subfloor must be structurally sound, clean, dust-free, smooth, trowel finish (not burnished) and level. Cracks and holes in excess of 3.2mm should be filled with a Portland Cement based floor patching material such as W.W. Henry 547 Unipro™, DAP "Webcrete 98", Maipei "PlaniPatch", Ardex "Featherfinish" or similar. Gypsum based compounds are not recommended.
- Milliken modular cushion carpet backings are non-reactive and contain no P.V.C. or plasticizers. This greatly simplifies the floor preparation process and in the vast majority of cases eliminates the necessity of old adhesive removal. All Milliken Modular carpets carry the "Lifetime Floor Compatibility" warranty. Milliken is not responsible for subfloor conditions. The installer has the responsibility for obtaining a successful installation.
- No chemical incompatibility exists between Milliken modular carpet or Milliken Modular Carpet Adhesive and any existing floor covering adhesive. This includes "cutback", asphalt emulsion, general-purpose adhesive, epoxy and any other commonly found flooring adhesives.
- The only physical requirement for existing adhesive films is that they be smooth, non-tacky, and that residual trowel notches be reduced to 0.8mm or less. In most cases the removal of the existing floor covering accomplishes this with only normal sweeping, cleaning, and patching required prior to beginning installation.
- Regardless of adhesive type, the existing layer should have minimal residual tack. There is no chemical reaction; however, excessive tack may cause the carpet modules to become bonded too aggressively to the floor over time. This tack can be "minimised" by sifting Portland Cement based patch powder into the existing film and sweeping away the excess or by applying a very thin layer of Portland patch.
- If additional smoothing is required and residual adhesive is black (cutback or asphalt emulsion) smoothing **must** be accomplished by applying a very thin layer of one of the above patching compounds.
- NEVER scrape, sand or mechanically abrade any exposed black adhesive or any existing resilient floor. These may contain asbestos.
- If residual adhesive is **not** black, scrape or sand until smooth and non-tacky as required.
- Protruding objects must be removed. The floor must be flat as per the latest edition of AS/NZS 2455.1&2 requirements.
- Sealing or other post-treatment of concrete floors is at the discretion of the installation contractor. In general, properly cured (90 days minimum) steel trowel-finished concrete requires no additional treatment. Excessively porous or dusty concrete slabs are the only exceptions. Please call Milliken Technical Services if you have questions. Bostik's Durabond D250 is a recommended product should this type of treatment be deemed necessary; however, any non-silicone-based sealer will work acceptably with non-PVC backings. This treatment is NOT intended to be a corrective for out-of-specification water vapor transmission levels.
- When working with a Gyp-Crete or Gypsum subfloor, Milliken recommends sealing with a gypsum floor sealer prior to installation. Failure to do so will result in an unacceptable installation.
- Carpet should be stored between 4°C to 38°C and must be conditioned to between 15°C and 32°C prior to and during installation.
- Floor temperature should be 15°C minimum for proper adhesive curing and performance.

NOTE: If your subfloor is contaminated with an oily residue either from the removal of "cutback" during asbestos abatement or from a previous end use such as metal fabrication, this residue MUST be totally removed or covered prior to applying modular adhesive and carpet. In addition, if residual adhesive – either "cutback" or general purpose has been damaged/reactivated by previously installed PVC-backed carpet, call Milliken Technical Services for guidance. **The "Lifetime Floor Compatibility" warranty does NOT apply in these situations.**

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APPLICATION:

Apply in accordance with Milliken's Modular Carpet installation instructions available online at:
http://www.millikenfloors.com.au

For all applications, please ensure:

- There is no visible water
- Floor prep must be performed in accordance with the latest edition of AS/NZS 2455.1&2. In case of the conflict between any clauses set forth in AS/NZS 2455.1&2 and Milliken documentation, the Milliken warranty and instructions take precedence.
- All topical curing compounds must be removed prior to application of adhesive.
- Bond test required

Application specific with a new pour:

a) For on-ground slabs, all new pours require the use of a vapor barrier in accordance with AS/NZS 2904 or AS 3660.1 vapour retarder placed in accordance with AS 2870 and directly in contact with the concrete placement.
b) For on-ground slabs with no vapour barrier or if the presence of vapour barrier is unknown, purchaser/owner has the responsibility to undertake all relevant subfloor test procedures including the age of the subfloor (e.g., date of concrete pour) and the results of RH% of the subfloor as per in-situ probe test method described in ASTM F2170 standard prior to using the adhesive. In the event of a claim, all subfloor and RH% test information must be submitted to Milliken with documents verified by a relevant third party. Please note that the shelf life of this adhesive is 2 years from date of manufacture.

Application specific with a renovation:

- With regards to renovation or replacement of carpet tiles, for all WellBAC® Comfort, Comfort Plus or Function tiles, the physical requirement for existing adhesive films is that they be smooth, non-tacky, and that residual trowel notches be reduced to 0.8mm or less. In most cases the removal of the existing floor covering accomplishes this with only normal sweeping, cleaning and patching required prior to beginning installation.

COVERAGE RATES:

- Milliken WellBAC® carpet tiles (including Function, Comfort and Comfort Plus) full spread for all tile sizes:
- Trowel, roller sizes and spread rate:
    - 1.6mm x 1.6mm "V1" notched trowel (4.5 to 5.5 m^2/litre)
    - 25mm nap roller (approximately 8.5 m^2/litre)

  An appropriate spread method must be used depending on the floor condition and tackiness required.
- In extreme environments – such as casinos and convention centres – which will routinely experience extreme rolling loads in excess of 2272Kg., a heavier full spread of adhesive is recommended. Target coverage for this end use is minimum 3.0 m^2/liter)

NOTE: THE ONLY RECOMMENDED ADHESIVES ARE *MILLIKEN MODULAR CARPET ADHESIVES.* USE OF OTHER ADHESIVES SHIFTS ALL INSTALLATION AND ADHESIVE LINKED LIABILITY TO THE ENTITY RESPONSIBLE FOR THE USE OF THE NON-APPROVED PRODUCT. WARRANTIES ON CARPET ARE NOT AFFECTED BY ADHESIVE CHOICE UNLESS THE ADHESIVE CAN BE SHOWN TO HAVE CAUSED DAMAGE.

ALL MODULAR CARPET ADHESIVE, REGARDLESS OF APPLICATION METHOD, OR USE ENVIRONMENT MUST BE ALLOWED TO DRY COMPLETELY BEFORE INSTALLING CARPET. FAILURE TO DO SO WILL MAKE REMOVAL, REPLACEMENT AND ROTATION OF THE MODULES VERY DIFFICULT.