

Milliken Carpet

Specification Sheet

Milliken Modular Carpet Adhesive-100V

Order as pattern # 500574/771/00001 (4-gallon or 15.1L size)

or as pattern #500599/757/00001 (5-gallon or 18.9L size). *NOTE: 5-gallon size will not be available long term.*

Milliken Modular Carpet Adhesive-100V 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 (CRI registration # is PSA-456521). While providing a high degree of tack and resistance to lateral movement, it will also allow removal of the carpet squares to facilitate access to electrical lines, telephone lines, etc. as well as allowing for the replacement of worn, damaged or stained squares.

PRODUCT DESCRIPTION

Packaging	4- or 5-gallon pail with pour spout
Weight Per Gallon	8.5 lbs. / gallon \pm 0.25 lbs.
Base	Acrylic Emulsion
Color	Wet: White Dry: Translucent
Consistency	Thin Syrup
Solvent	Water
Solids	58% by weight minimum
Flammability	Non-flammable in wet state
Storage	Adhesive and carpet modules must be stored between 40°F and 100°F (4°C and 38°C)
On Site	Carpet, adhesive and area must be conditioned to between 60°F and 90°F (15°C and 32°C) 24 hours prior to, during and after installation.
Freeze-thaw	Freeze-thaw stable for five (5) cycles at 0°F.
Shelf Life	One year 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 IMBEDDED IN THE FIBER, IT MAY BE NECESSARY TO REPLACE THE TILE IN QUESTION.

REMOVAL OF DRIED ADHESIVE FROM FLOOR SURFACES:

1. Use a commercially available product such as “Detach” by Parabond following manufacturer’s instructions carefully. This product has the advantage of leaving no residue to affect subsequent installations. Parabond can be reached at 800 763 7272
2. Apply a 1/10 solution of an ammonia based wax stripper and hot (140 degrees F) to small sections of the adhesive and allow to soak for 10 to 15 minutes. For best results wet only 100 to 200 square feet of adhesive at one time. Remove adhesive by buffing with an abrasive “Scotch Brite Brown Line” pad or similar. Squeegee or wet vacuum the floor to remove residue and neutralize with a 50/50 vinegar and water solution. Stubborn areas may require the use of a razor blade type scraper to fully remove all existing adhesive.
3. Apply one of the commonly available citrus -oil based solvents (“Citrasolve” “ OrangeSolv” DeSolvIt” or similar) and allow to sit for 10 to 15 minutes or until adhesive is very soft. Buff and clean the floor as described above to loosen and remove adhesive. Finish with a neutral detergent and clean water rinse to remove any residual solvent. Failure to remove all of these type solvents can lead to serious problems with any subsequent flooring installation.

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FLOOR PREPARATION GUIDELINES

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

NOTE: The following are guidelines. 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.

- Subfloor must be structurally sound, clean, dust free, smooth and level. Cracks and holes in excess of 1/8" (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 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.
- 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 1/32"(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 "killed" 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. In cases such as this, a grid method of gluing is preferred if the product type allows.
- 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. Floor must be flat (not undulating) to within 1/4" in 12' (6.4mm across 3.66m) with no abrupt changes.
- 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. *KURE-N-SEAL WB* from Sonneborn (800-243-6739) 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.
- Carpet should be stored between 40°F and 100°F (4°C to 38°C) and must be conditioned to between 60°F and 90°F (15°C and 32°C) prior to and during installation.
- Floor temperature should be 60°F (15°C) minimum for proper adhesive curing and performance.
- Floor pH should not exceed 10.0. Floor should be acid washed using a 50/50 vinegar and water or a 1/20 muriatic acid and water solution if pH is greater than 10.
- Water vapor transmission should not exceed 3 lbs. per 1000 square feet (1.4 Kg/93m²) per 24-hour period as determined by the #625 Anhydrous Calcium Chloride test available from Taylor Tools, Denver, Colorado 303-371-7667. Equivalent tests (Vaprecision® or SINAK's "dome" test) are also available from various suppliers. Any test used **MUST** be performed to comply with ASTM F-1869-98.
- Milliken Carpets having the Comfort Plus® backing will accept water vapor emission levels in excess of the 3lb "industry standard" without creating the problems generally associated with high emission rates. These situations are handled on a case-by-case basis. Contact Technical Services if this situation is encountered. As a general guideline, levels of 8lbs and less have not created a problem when Comfort Plus® is used.

NOTE: If your subfloor is contaminated with an oily residue either from 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.

APPLICATION:

Apply in accordance with Milliken's installation instructions printed on each box or pallet of the modular product being used.

COVERAGE RATES:

See Table Below.

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MODULAR ADHESIVE SPREAD RATE TABLE

PRODUCT TYPE	APPLICATION TYPE			
	3 foot grid DRY	6,12 or 15' grid DRY	Larger grid or glueless install DRY	Full Spread DRY
18" EverWher® Plus	50 to 75 Sq.Yd./Gal.	75 to 125 Sq.Yd./Gal.	NO	40 to 50 Sq.Yd./Gal.
18" Comfort Plus®	NO	NO	NO	35 to 40 Sq.Yd./Gal.
36" Comfort Plus® General commercial use without extreme rolling loads.	50-75 sq.yd./Gal. 9" wide grid lines centered under module joint lines.	75 to 125 sq. yd./Gal. Floor and site conditions are critical on all grid installations.	Call Technical Service @ 800 241 4826 Ext 5634 if you wish to use this method. This is done on a case-by-case basis.	35 to 40 Sq.Yd./Gal.
36" Comfort Plus® Extreme environments where rolling loads will routinely exceed 5,000 lbs.	NO	NO	NO	25 to 35 Sq.Yd./ Gal.
Effective 12/02	Note: see instructions for metric equivalents			

NOTE: THE ONLY RECOMMENDED ADHESIVES ARE *MILLIKEN MODULAR CARPET ADHESIVE 100V* OR *MILLIKEN MODULAR CARPET SPRAY ADHESIVE*. 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. 100V IS APPLIED WITH A 3/4 TO 1" NAP PAINT ROLLER OR A 1/32" X 1/32" X 1/16" NOTCHED TROWEL OR MAY BE SPRAYED WITH COMMERCIALLY AVAILABLE EQUIPMENT AS LONG AS THE TARGET COVERAGE RATES ABOVE ARE ACHIEVED. MILLIKEN MODULAR SPRAY ADHESIVE IS APPLIED WITH THE P#500541 SPRAY APPLICATION EQUIPMENT AVAILABLE FROM MILLIKEN. TARGET COVERAGE FOR THE SPRAY PRODUCT SHOULD BE 400 TO 450 SQ. YDS. PER CANISTER WHEN USING A FULL SPREAD IN A NORMAL COMMERCIAL ENVIRONMENT. IN EXTREME ENVIRONMENTS COVERAGE SHOULD BE ADJUSTED TO 300 TO 350 SQ. YDS PER CANISTER.

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.

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