



Kinsley Carpet Mills

KC500 Heavy-Duty Outdoor Carpet Adhesive

Specification Sheet

Description

KC500 is specially formulated for the installation of synthetic turfs and grass carpets. KC500 is for indoor and outdoor applications where flammable products pose the risk of fire or where solvent fumes are unwanted. This adhesive provides an extremely tenacious, water resistant bond to concrete, asphalt paving surfaces and other common sub-floors. KC500 has a fast, aggressive tack and forms a long-lasting bond.

Recommended for use with:

KC500 is designed for synthetic grass and outdoor carpets with the following backings:

1. Woven polypropylene (ActionBac®, Unibond)
2. Closed-cell urethane foam (Enhancer I, II, III, IV, Durafoam and
3. Rubber backings
4. Latex foam
5. Jute
6. Needle-punch
7. Latex unitary



Uralon)

Subfloor Surfaces

1. Exterior: Marine or exterior grade plywood, Interior: APA plywood underlayment
2. Asphalt paving (clean and fully cured)
3. Concrete -in the absence of excessive moisture emissions and alkali (Max MVER 8lbs. /1000sq. ft. /24 hrs; *in situ* RH 90%; pH 7.0-9.0)
4. Fiberglass and Aluminum that are clean and have been lightly abraded to provide for a mechanical bond.

NOTE: *This adhesive is not recommended for pure vinyl backed sheet goods or carpet backings. This adhesive should not be used over asphalt roofing or treated wood. Before beginning installations with backing systems or over sub-floors not mentioned above, please contact Kinsley Technical Services for recommendations.*

Specific Technical Data

- Latex-resin emulsion
- Open Time: 15-30 minutes (varies with temperature, wind and relative humidity)
- Freeze-Thaw stable: If frozen, allow to thaw at room temperature. DO NOT stir or agitate while frozen. Stability and spread-ability can be reduced if frozen. For best results do not allow the adhesive to freeze.
- Clean-up: wet adhesive with warm water, dry adhesive with Kinsley's recommended 197 Adhesive Remover
- VOCs: 0 g/l (Calculated per Ca. Rule 1168); Solvent Free; Non-flammable
- Shelf Life: One year from date of manufacture in an unopened container
- Sizes: 1 gallon and 4 gallon pail

Typical trowel and approximate coverage:**SMOOTH BACKED CARPETS**

3/32 x 3/32 x 3/32 V notch

125 sq. ft. /gal

ROUGH BACKED CARPETS

1/8 x 1/8 x 1/8 U notch

100 sq. ft. /gal

The proper trowel notch will depend upon the sub-floor roughness and porosity, as well as, the texture of the carpet backing. A larger notched trowel may be required to apply the appropriate quantity of adhesive. Maintain the proper trowel notch throughout the entire installation. Follow the carpet manufacturer's recommendations regarding the proper trowel notch to use.

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 carpet/turf manufacturer and Kinsley. The sub-floor should be prepared according to the standards and practices set forth in the latest version of document ASTM F-710.

1. Flooring and adhesive must be stored in a preheated building where room temperature should be no less than 65°F for a minimum of 24 hours before the installation begins. Do not use when the substrate or ambient temperature is below 65°F or above 95°F. The temperature must not fall below 40°F once the installation begins and for at least 48 hours after the installation is completed.
2. For indoor installations concrete sub-floors must be dry with moisture emission rates that do not exceed 8 lbs. /1000 sq. ft. /24 hrs. as measured by using the Anhydrous Calcium Chloride Test following the procedures in the latest version of ASTM-F1869. The *in situ* relative humidity of the slab must be 90% or less according to the latest version of ASTM-F2710. The pH must be 7.0-9.0.
3. The sub-floor must be cleaned, free of dust, dirt, grease, wax, paint, oil, curing or parting agents, loose particles or any substance that may affect the bond. Very porous sub-floors must be primed with Kinsley's recommended 570 Primer.
4. Allow approximately 10-15 minutes open time before placing the carpet. Temperature, relative humidity and wind speed will affect the tack and working time of the adhesive. Occasionally, lift the carpet to assure that a 100% adhesive transfer is achieved. If used outdoors excessive air movement can accelerate the drying speed of the adhesive. Do not allow the adhesive to skin over before placing the carpet. If the adhesive skins over reapply adhesive before placing the carpet
5. Seal seams and edges with a seam adhesive to prevent raveling and to maintain the appearance of the carpet.
6. Roll completed installation in north-south and east-west directions to insure proper adhesive transfer and to remove trapped air. Use a 75lb, three section roller. Installations should not receive drenching rain or moisture from other sources for 48 hours after application.

NOTE: We recommend installers follow the guidelines set forth in the latest version of the CRI's *Carpet Installation Standard - 104*. Before placing the carpet, the adhesive must be allowed an open or dwell time appropriate for the carpet 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.

