

## Serena® Isolation Mat Underlay Adhesive

Serena Mat Underlay Adhesive is a homogeneous ready-to-use high-performance “Hi-Tack” solvent-free low VOC low-odor freeze-thaw stable acrylic latex emulsion based adhesive specially formulated for reduced seam-splits and easy long performing successful installation of most types of carpet, under-carpeting and rubber floor covering.

*[Refer to the carpet, under-carpeting and/or rubber flooring manufacturer's setting instructions, limitations and guidelines]*



### SERENA MAT ADHESIVE USES

For INTERIOR installation of jute-backed, woven, needle unched, rubber or sponge-rubber, polypropylene (ActionBac®), hot-melt (Unibond®), latex unitary, closed cellular urethane and Enhancer®-backed carpets, under-carpeting and homogeneous rubber floor covering over most dry, clean, properly prepared standard substrates normally recommended and/or guaranteed by the carpet or rubber floor-covering manufacturer and/or by the sub-floor preparation product manufacturer.

### LIMITATIONS

- ▶ DO NOT USE for exterior installation
- ▶ DO NOT USE when the ambient and/or substrate temperatures are below 10°C (50°F) or above 35°C (95°F) and in ambient relative humidity conditions higher than 65%.
- ▶ DO NOT USE this adhesive to install urethane-unitary or vinyl-backed carpets.
- ▶ DO NOT USE this adhesive to install vinyl-backed floor covering and/or Mondo or Amtico type rubber floor covering sheet goods.
- ▶ DO NOT USE this adhesive to install mineral fiber-backed vinyl sheet floor coverings.
- ▶ DO NOT INSTALL carpet, under-carpeting or rubber flooring directly over damp concrete or over “On-Grade” and “Below-Grade” concrete slabs in high moisture or high water table areas. In all cases, the moisture vapor emission of the substrate must not exceed 1,36 kg per 93 m<sup>2</sup> (31b per 1000 sq. ft.) per 24 hours when tested with the calcium chloride tester (ASTM F-1869).
- ▶ DO NOT USE this adhesive over gypsum-based patching and levelling compounds. For Substrate preparation, use only the appropriate cement-based PROMA leveling and/or patching product.

Caution Do not roll or use a floor-roller to place or smooth-out cushion-backed carpets. Use a carpet-core instead.

### RECOMMENDED SUBSTRATES

- ▶ Properly prepared clean, dry, fully cured concrete (at least 28 days old), free of moisture, rising moisture and alkaline conditions.
- ▶ Cementitious screeds, rendering, levelling coats and mortar beds.
- ▶ Exterior Glue Plywood and OSB panels that are recommended and/or guaranteed by the wood underlayment manufacturer, the rubber flooring manufacturer or the carpet manufacturer.
- ▶ Properly prepared and levelled embossed vinyl flooring using a floor patching system for residential and light commercial duty floors only.
- ▶ Properly prepared existing vinyl composition tile.

## TROWEL GUIDELINE/APPROXIMATE COVERAGE

1/8" x 1/8" x 1/8" (square notched)  
90 square feet per gallon  
450 square feet per 5 gallon pail.

Note: Clean or change trowel often to prevent adhesive build-up.

## SUBFLOOR PREPARATION

- ▶ Concrete substrates must be completely cured (at least 28 days old) dry and free of moisture or rising moisture conditions. IMPORTANT – Perform a Moisture emission test with the calcium chloride tester (ASTM F-1869). In all cases, the moisture vapor emission must not exceed 1,36 kg per 93 m<sup>2</sup> (3 lb per 1 000 sq. ft.) per 24 hours.
- ▶ Remove all acid, alkali and/or cleaning chemical residues.
- ▶ All substrate surfaces must be smooth and flat to a tolerance in plane of .0015 (3/16" in 10'-0" or 1/8" in 6'-0").
- ▶ When sub-floor levelling, filling and/or patching is required, use ONLY the appropriate high compressive strength Portland cement based levelling and/or patching product [Please contact Acoustical Surfaces representatives for complete details and recommendations]
- ▶ Mechanically roughen concrete substrate surfaces in accordance with the engineer-approved procedure (Shot-blasting, scarification, grinding, sand or water-blasting, etc.) The surface texture must be sufficiently profiled to provide adequate bond with the subsequent self-levelling/filling/patching sub-floor preparation product layer.
- ▶ All substrates must be clean, dry, structurally sound, properly cured, free of dust, dirt, oil, paint, old adhesive, wax, sealers, curing agents and debris that may prevent or reduce adhesion. In general, scouring with 20 grit or #3 1/2 paper will remove most compounds.
- ▶ Vacuum-clean the sub-floor thoroughly to remove all residual dust and debris.

## MIXING

- ▶ Ready-to-use. No mixing required. Just remove the container-lid and spread the adhesive.

## INSTALLATION INSTRUCTIONS

- ▶ Refer to the Rubber-Flooring, carpet and under-carpeting Manufacturer's Product Instructions and the relevant industry standards as to the requirements and procedures concerning site conditioning, substrate preparation and materials handling, conditioning and installation.
- ▶ All Rubber floor-covering, Carpeting, Under-carpeting, Adhesive, Sub-floor Preparation Products and Substrate should be acclimatized and maintained at normal room temperature [ $\pm 23^{\circ}\text{C}$  ( $73^{\circ}\text{F}$ )] for a period of a least 24 hours before installation, during installation and 48 hours after.
- ▶ Use the appropriate notched trowel/spreader (See Trowel Guideline Table) as recommended by the Rubber Floor Covering
- ▶ Manufacturer or carpet Manufacturer to ensure adequate adhesive contact [usually  $\pm 95\%$  of the back-face of the floor covering].

## OPEN TIME

- ▶ At room temperature, [ $\pm 23^{\circ}\text{C}$  ( $73^{\circ}\text{F}$ )] the Open time of this adhesive may vary between 30 to 35 minutes depending upon its amount of exposure to moisture.

## APPLICATION

- ▶ Do not spread more adhesive than can be covered with carpet or floor covering within 30 minutes.
- ▶ Set the carpet, under-carpeting or rubber floor covering while the adhesive is fresh. Do not allow the adhesive to skin-over or become dry before applying the carpet, under-carpeting or floor covering.
- ▶ For installing carpets with non-porous backing or with stiff or rigid backs with inherent "memory", spread the adhesive and allow it to become slightly tacky to the touch (10 to 20 minutes, or more depending on humidity conditions) before applying the carpet or floor covering. This "Touch-tacky adhesive" installation method should also be used when installing over non-porous substrates (such as old VCT and existing vinyl floor covering).
- ▶ Periodically lift the carpet or floor covering material and check backs to ensure that there is sufficient and proper adhesive contact
- ▶ Using the appropriate floor roller, such as recommended by the carpet or floor covering manufacturer, roll the carpet, under-carpeting or rubber floor covering surface back and forth and across to remove all voids and blisters.
- ▶ Proceed with cutting and seaming in accordance with carpet manufacturer's instructions.

## PROTECTION

- ▶ Avoid unnecessary walking on the floor during the installation.
- ▶ Protect floors from traffic for at least 24 hours after installation.

NOTE: Generally, at room temperature and 50% Rh conditions, this adhesive will dry in about 24 hours.

## CLEAN UP

- ▶ As the carpeting or rubber floor covering is being installed, immediately wipe-off wet adhesive smudges and excess adhesive from the surface with a WHITE cloth dampened with water while the adhesive is wet or with mineral spirit if the adhesive has dried.
- ▶ Do not allow adhesive to dry on the carpet or flooring surface, as cured adhesive is more difficult to remove.
- ▶ Promptly clean tools and hands with water while the adhesive is fresh.

## PROTECT FROM FREEZING

Although this adhesive is freeze-thaw stable to -18°C (0°F), it should be protected from freezing like any water-based latex products. If the adhesive is or has frozen, do not stir or use the product until it has completely thawed.

## WARRANTY

SPC disclaims all other warranties, expressed or implied, including the warranties of merchantability and fitness for a particular purpose. The buyer's sole remedy for non compliance with this warranty shall be for the replacement of the product or refund of the buyer's purchase price. In no case will DURO be liable for direct, consequential, economic or other damages.