

PRODUCT DESCRIPTION

TP-620 is a solvent free, pressure-sensitive tape-based adhesive designed for use with indoor installations of stair treads, risers, stringers and cove fillet sticks. TP-620 is designed specifically to permanently adhere rubber or vinyl products. A pressure sensitive tape, the TP-620 can adhere to a variety of substrates, including non-porous substrates, and allows for installations to resume use immediately.

TECHNICAL INFORMATION

Unit Size:	1" x 164' (6 per case), 4" x 164' (3 per case), 9.5" x 164' (1 per case)
VOC:	<40 g/l
ASTM F2170 – RH Limit:	90% RH
ASTM F1869 – MVER Limit:	6 lbs.
ASTM F710 – pH Limit:	7-10
AFERA 40001 – Peeling Res.:	10N / 25mm
DN 53857 – Tear Res.:	210N / 50mm
Flash Time:	Immediate
Working Time:	Indefinite
Light Foot Traffic:	Immediate
Heavy Foot Traffic:	Immediate
Maintenance:	Immediate
Shelf Life:	1 Year from date of receipt
Storage Temperature:	50° - 85° F (10° - 29.5° C)

SUSTAINABILITY

Contributes to **LEED v2009 IEQ Credits 4.1**

Technical Documentation visit: www.excelsiorproducts.net or send an e-mail to: solutions@rhctechanical.com

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1. PRODUCT LIMITATIONS

- Prior to acceptance of this document refer to website www.excelsiorproducts.net to confirm that you have the most current revision.
- All referenced times are subject to substrate porosity and texture, as well as ambient conditions, such as air temperature, relative humidity and substrate temperature – actual times may vary based on these conditions.
- Adhesive cannot resist dimensional instability of flooring products, which may cause gapping, cupping, buckling and/or edge lifting.
- Do not use outdoor installations or over existing resilient flooring products or adhesives.
- Deliver all materials to the installation location in its original packaging with labels intact.
- Inspect all materials to ensure there is no leakage or damage.
- Do not stack pallets to avoid damage.
- Ensure installation area and material storage area temperatures are between 65° F (19° C) and 85° F (30° C) and 40% - 65% RH for at least 48 hours before, during and after installation.
- Ensure HVAC system is operational and fully functioning at normal operating conditions 48 hours prior to, during and for the life of the installation.
- Protect installation area from extreme temperature changes, such as heat and freezing, as well as direct sunlight for at least 48 hours before, during and for the life of the installation.
- Ensure concrete moisture testing is conducted or scheduled to be conducted prior to flooring installation.

2. PRE-INSTALLATION CHECKLIST

- Consult all associated product literature concerning installation and warranty prior to installation.
- Allow all trades to complete work prior to installation.

- Ensure all vents, walls, moldings and/or doorways are protected with tape or plastic prior to installation.
- Test substrate for porosity in order to determine the installation method necessary.
- Do not proceed with installation until all conditions have been met.

3. SUBSTRATE PREPARATION

In regards to substrate preparation when mechanical sanding, grinding, shot blasting and vacuuming always follow the Resilient Floor Covering Institute's (RFCI) "Recommended Work Practice for Removal of Existing Floor Covering and Adhesives", and all applicable local, state, federal and OSHA requirements in regards to Asbestos and Silica containment regulations.

All substrates must be prepared according to ASTM F710 or ASTM F1482, as well as applicable ACI and RFCI guidelines. Substrates must be clean, smooth, permanently dry, flat, and structurally sound. Substrates must be free of visible water or moisture, dust, sealers, paint, sweeping compounds, curing compounds, residual adhesives and adhesive removers, concrete hardeners or densifiers, solvents, wax, oil, grease, asphalt, visible alkaline salts or excessive efflorescence, mold, mildew and any other extraneous coating, film, material or foreign matter.

All substrates must have any and all existing adhesives, materials, contaminants or bond-breakers mechanically removed via scraping, sanding, grinding or buffing with a 25 grit DiamoBrush Prep Plus tool prior to adhesive installation. In extreme situations, shot-blasting may be required. Mechanical preparation must expose at least 90% of the original substrate. Following cleaning and removal, all substrates must be vacuumed with a HEPA approved vacuum and flat vacuum attachment to remove all surface dust. **Sweeping without vacuuming will not be acceptable.**

Do not use solvent/citrus based adhesive removers prior to installation.

CONCRETE SUBSTRATES

All concrete must have a minimum compressive strength of 3500 PSI and be prepared in accordance with ASTM F710. When flooring is being installed directly over concrete, concrete surfaces that have an ICRI Concrete Surface Profile (CSP) over 4 should be smoothed with a self-leveling underlayment or a patch to prevent imperfections from telegraphing through flooring materials.

Ensure that all substrates are not contaminated with any aforementioned contaminants.

New concrete substrates should be tested per ASTM F2170 Relative Humidity Testing, existing concrete

substrates that have previously had floor covering installed on them must also be tested in accordance with ASTM F1869, using Calcium Chloride test kits, to quantitatively determine the Moisture Vapor Emissions Rate (MVER) of the concrete.

If ASTM F2170 or ASTM F1869 test results exceed the prescribed limits, a moisture mitigation product, such as Excelsior MM-100 Moisture Mitigation, must be installed prior to proceeding with installation.

RESINOUS SUBSTRATES

When installing directly over a resinous products, such as the Excelsior MM-100 or an epoxy coating, ensure that coating is dry to the touch and has cured for the prescribed length of time. Substrate must be clean, dry, sound and free of contaminants and well bonded.

GYPSUM BASED SUBSTRATES

Gypsum-based substrates must have a minimum compressive strength of 3500 PSI. Substrate must be structurally sound and firmly bonded to the subfloor below. Any cracked or fractured areas must be removed and repaired with a compatible patch or repair product. Follow instructions for installation over a gypsum substrate. New or existing gypsum substrates may require the substrate has a primer or sealer applied just prior to finished floor being installed. Gypsum substrates may also have one coat of the Excelsior MM-100 installed to improve the top layer bonding strength of the substrate. Follow all manufacturers' recommendations regarding preparation for resilient flooring installation.

WOOD SUBSTRATES

Wood substrates must be prepared in accordance with ASTM F1482 prior to installation. Other wood subfloor materials, such as OSB, lauan, particleboard, chipboard or cementitious tile backer boards, are not acceptable subfloors. If OSB or chipboard is already installed as underlayment for the treads to be installed with the TP-620 tape, please call Technical for review.

Avoid preservative treated and fire-retardant plywood also along with plywood sheathing designed for long lasting exposure to exterior climates. These could contain resins/waxes that could stain or be considered bond breakers. Always refer to those manufacturers recommendations. If the subfloor materials mentioned above are already installed or the wood substrate is old and not repairable, the use of multi-ply Underlayment Grade plywood at a minimum of ¼" thick with a fully sanded face will be required. Wood subfloor deflection, movement, or instability will cause the flooring installations to release, buckle or become distorted. As such, do not use plastic or resin filler to patch cracks.

Do not use cement or rosin coated nails and staples or solvent-based construction adhesives to adhere the plywood.

METAL SUBSTRATES

Metal substrates must be thoroughly sanded/grinded and cleaned of any residue, oil, rust and/or oxidation. Substrate must be smooth, flat and sound. Install flooring material within 12 hours after sanding/grinding to prevent re-oxidation. Excessive deflection in the metal floor can cause a bond failure between the adhesive and the metal substrate.

EXISTING FLOORING SUBSTRATES

Existing rubber flooring and LVT, as well as the adhesives used to install them, must be completely removed from the substrate prior to installation. Existing VCT, VAT, quartz tile, solid vinyl tile, sheet goods, hardwood flooring, asphaltic materials and existing adhesives or adhesive residue must have a compatible cementitious patch or underlayment installed over the substrate prior to installation.

TP-620 may be installed over existing stone flooring substrates, such as terrazzo, porcelain or ceramic tile. Ensure existing flooring is a single layer of material and that all materials are clean, dry, sound, solid, well adhered and free of site-applied finishes, waxes and/or contaminants. Any and all loose tiles must be removed and repaired or replaced. All grout lines and irregularities must be filled and troweled flush with a suitable primer and patch such as the Excelsior NP-230 and CP-300 to prevent telegraphing of the existing floor.

All existing flooring substrates must have any and all site-applied finishes and/or waxes completely removed prior to flooring installation in order to ensure a proper adhesive bond. For mechanical removal, use a low-speed buffer and 40-60 grit sandpaper.

Do not install TP-620 until any moisture on, between or below existing flooring has completely dried. Ensure all dust; dirt and debris are removed prior to Tape installation.

RADIANT HEATING SUBSTRATES

When installing TP-620 tape over a substrate that contains a radiant heating system, ensure the temperature of the radiant heating system does not exceed 85° F (29.5° C) and avoid making abrupt changes in radiant heating temperature.

4. CRACKS, JOINTS & VOIDS

All cracks, joints and voids, as well as the areas surrounding them, must be clean and free of dust, dirt, debris and contaminants and be repaired with a suitable cementitious patch.

Due to the dynamic nature of concrete slabs, manufacturer **cannot** warranty installations over expansion joints, cracks or other voids such as control cuts saw joints and moving cracks. Do not install flooring or use adhesives directly over any expansion joints. All expansion joints should have a suitable expansion joint covering system installed to allow expansion joint to freely move.

5. PRODUCT INSTALLATION

Ensure substrate is suitably prepared prior to installation, as manufacturer is not responsible for substrates that have not been properly prepared and tested for moisture. Ensure adhesive tape is approved for use with product material, as manufacturer is not responsible for any and all adhesion issues related to improper adhesive selection or usage.

Using a clean, damp mop or sponge, clean all substrates, especially concrete, prior to installation to remove dust, dirt and debris.

Allow area to dry prior to application. Any dust or contamination on the surface of a substrate could disrupt the bond of the tape.

All Rubber products such as treads, risers and stringer material are sprayed with a mold release in the manufacturing process on both the front and back of the material. The area that will come in contact with the TP-620 needs to be wiped clean with denatured alcohol and a clean rag. Failure to do so could result in bond failure. See Stair Treads Installation guidelines.

Once substrate and all materials have been properly prepared and cleaned, pre-cut tape to fit the perimeter of the stair treads or aligns on top edge of the material.

For stair tread installations that may require the EN-610 Nose Filler, be sure to allow a ½" – ¾" space to ensure proper bond of both the adhesive.

Apply adhesive tape directly to substrate and apply firm, even pressure to ensure adhesion. Once the finished product is cut to size and ready for installation remove the paper from the top surface of the adhesive tape and install stair tread, riser or accessory onto substrate. Immediately roll the complete surface of the stair tread or riser to ensure full contact with tape. Once installation is complete, roll the perimeter of all stair treads and risers again.

6. CLEAN-UP

Any adhesive residue left on the surface of materials must be removed with a clean towel and denatured alcohol or equivalent.

7. WARRANTY

Manufacturer provides a 1 year material & labor warranty for all installations where tape is properly installed.

FOR PROFESSIONAL USE ONLY

PLEASE CONSULT ALL ASSOCIATED INSTALLATION, TECHNICAL AND SAFETY DATA SHEETS AS WELL AS COMPLETE WARRANTY INFORMATION PRIOR TO INSTALLATION.