



Product Description

DeGradus is a premium Luxury Vinyl Tile product, available in tiles and planks, featuring beautiful, rich wood and stone looks that provide appealing design elements in any setting. DeGradus' solid construction and rugged finish provide for long lasting durability for the lifetime of the flooring installation.

DeGradus' precision cut materials allow for easy installation, tight seams, and the ability to design unique patterns and designs. DeGradus is constructed with a durable wear layer and topped with a UV-cured polyurethane finish, which provide endurance and beauty without the use of an on-site finish.

DeGradus is 100% recyclable and manufactured in the USA from premium raw materials, making it a beautiful & sustainable flooring option for any space.

Features

- 100% Recyclable
- Easy To Maintain
- UV-Cured Urethane Finish
- Extremely Durable
- Excellent Indentation Resistance
- Excellent Chemical Resistance
- Excellent Slip Resistance
- Qualifies for LEED® Credits
- FloorScore® Certified

Technical Data

Nominal Dimensions: **6" x 48" x 2mm plank**
12" x 24" x 2mm tile

Finish: **Embossed**

Wear Layer Thickness: **7 mil (.007")**

Quantity Per Carton: **27 planks (6" x 48")**
22 tiles (12" x 24")

LEED v2009 MR Credit 6 RRM Content: **12%**

LEED v2009 IEQ Credit 4.1: **Qualifies**

LEED v2009 IEQ Credit 4.3: **Qualifies**

ASTM F1700 – Solid Vinyl Tile: **Class III, Type A & B**

ASTM E648 - Critical Radiant Flux: **Class I, >.45 W/cm2**

ASTM E662 - Smoke Density: **Passes, <450**

CAN/ULC-S102.2 – Surface Burning: **50 FSR, 150 SDC**

ASTM D2047 - Slip Resistance: **> 0.60**

ASTM F970 - Static Load Limit: **Passes, > 250 PSI**

ASTM F970 (Modified) - Max Weight: **2000 PSI (< .005" Indentation)**

ASTM F925 – Chemical Resistance: **Excellent (chart available)**

ASTM F1515 – Light Stability: **Passes**

ASTM F1914 Residual Indentation: **Passes**

ASTM F2199 Dimensional Stability: **Passes**

Acclimation Time: **48 Hours**

Storage & Acclimation Temperature: **65° - 85° F**

Additional Information

Approved Adhesives

- Excelsior SP-500 Acrylic Aerosol
- Excelsior AW-510 Acrylic Wet Set
- Excelsior AP-520 Acrylic Roll-On
- Excelsior MS-700 Modified Silane
- Excelsior EW-710 Epoxy Wet-Set

Availability, Cost & Samples

For information regarding availability, cost and samples, please contact Customer Service at (844) 432 - 5885 or send an e-mail to support@sixdegreesflooring.com

Technical Documents & Support

Additional product resources and technical documents are available online at sixdegreesflooring.com or through the nearest sales representative. For additional technical support, send an email to solutions@rhctechical.com.

DeGradus™
by Six Degrees
Flooring Surfaces

Plank + Tile
VINYL FLOORING

1. PRE-INSTALLATION CHECKLIST

- Consult all associated product literature concerning adhesive installation, maintenance and warranty prior to installation of flooring.
- Allow all trades to complete work prior to installation.
- Deliver all materials to the installation location in its original packaging with labels intact.
- Do not stack pallets to avoid damage.
- Remove any plastic and strapping from product after delivery.
- Remove material from packaging and stack evenly on a smooth, dry surface. Do not stack higher than 18".
- Inspect all material for proper type, color and matching lot numbers or production codes if appropriate.
- Ensure that all adhesives intended for installation are approved for use with flooring material.
- Ensure installation area and material storage temperatures are between 65° F (19° C) and 85° F (30° C) for at least 48 hours before, during and after installation.
- Ensure HVAC system is operational and fully functioning at normal operating conditions.
- 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 after installation.
- Ensure all substrate preparation and moisture testing requirements have been read and understood by all interested parties.
- Test substrate for porosity in order to determine the installation method necessary.
- Ensure all vents, walls, moldings and/or doorways are protected with tape or plastic prior to installation.
- Do not proceed with installation until all conditions have been met.

2. PRODUCT LIMITATIONS

Do not install materials over LVT, cushioned vinyl, hardwood flooring, cork,

rubber, or asphaltic materials. Do not install flooring materials in outdoor areas or in and near commercial kitchens. Do not install in areas that may be subjected to sharp, pointed objects, such as stiletto heels, cleats or spikes. Do not allow product to be directly exposed to extreme heat sources, such as radiators, ovens or other high-heat equipment. May be susceptible to staining from rubber tires, casters or rubber-backed walk-off mats, as well as harsh disinfectants, cleaning agents, dyes or other harsh chemicals – ensure all chemicals and materials that may come in contact with flooring surface will not stain, mar or otherwise damage the flooring material prior to use.

3. SUBSTRATE PREPARATION

All substrates must be prepared according to ASTM F710, 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 be vacuumed with a flat vacuum attachment or damp mopped with clean, potable water to remove all surface dust. Sweeping without vacuuming or damp mopping will not be acceptable.

It is recommended that all substrates have a floor flatness of FF32 and/or a flatness tolerance of 1/8" in 6' or 3/16" in 10'.

All porous substrates must be tested to confirm porosity. To determine substrate porosity, place three, .05 mL (1/4" wide) droplets of clean, potable water onto the surface of the substrate per every 2000 sq. ft., at least one test per room. If the substrate absorbs water within 60 seconds, the substrate is considered porous. All other substrates that do not meet this requirement are considered non-porous. Ensure that all non-porous substrates are not contaminated with any aforementioned contaminants.

When conducting renovations or remodeling, remove all existing adhesive

residue so that 90% of the original substrate is exposed by mechanical means, such as shotblasting, grinding or buffing with a 100 grit Diamabrush Prep Plus attachment.

Do not use solvent/citrus based adhesive removers prior to installation. Follow The Resilient Floor Covering Institute's (RFCI) "Recommended Work Practice for Removal of Existing Floor Covering and Adhesive", and all applicable local, state, federal and industry regulations and guidelines. When removing asbestos and asbestos containing materials, follow all applicable OSHA standards.

CONCRETE SUBSTRATES

All concrete must have a minimum compressive strength of 3500 PSI and be prepared in accordance with ASTM F 710. When flooring is being installed directly over concrete, concrete surfaces that have an ICRI Concrete Surface Profile (CSP) over 4 should be treated with a self-leveling underlayment or a patch to prevent imperfections from telegraphing through flooring materials. On or below grade concrete must have a permanent, effective moisture vapor retarder installed below the slab.

New or existing concrete substrates on all grade levels must be tested in accordance with ASTM F 2170, using in situ Probes (such as Wagner Rapid RH), to quantitatively determine the amount of relative humidity at least one week prior to the installation.

Adhesive RH Limits

- SP-500 Acrylic Aerosol: **90% RH**
- AW-510 Acrylic Wet Set: **85% RH**
- AP-520 Acrylic Roll-On: **75% RH**
- MS-700 Modified Silane: **95% RH**
- EW-710 Epoxy Wet-Set: **85% RH**

In addition to ASTM F 2170 Relative Humidity Testing, existing concrete that has previously had floor covering installed on all grade levels must be tested in accordance with ASTM F 1869, using Calcium Chloride test kits, to quantitatively determine the Moisture Vapor Emissions Rate (MVER) of the concrete.

Adhesive MVER Limits

- SP-500 Acrylic Aerosol: **9 lbs.**
- AW-510 Acrylic Transition: **6 lbs.**
- AP-520 Acrylic Roll-On: **6 lbs.**
- MS-700 Modified Silane: **10 lbs.**
- EW-710 Epoxy Wet-Set: **6 lbs.**

If ASTM F2170 or ASTM F1869 test results exceed the above limits, a moisture mitigation product, such as the Excelsior MM-100 Moisture Mitigation must be installed prior to proceeding with installation. Do not install flooring until moisture testing has been conducted per the appropriate standard and/or moisture mitigation has been installed per product technical data and/or installation instructions and is dry to the touch. Do not install flooring in below grade areas when hydrostatic pressure is visible or suspected.

If ASTM F2170 and ASTM F1869 test results are below recommended limits, concrete substrates must be tested for elevated pH and alkalinity in accordance with ASTM F710.

Adhesive pH Limits

- SP-500 Acrylic Aerosol: **7-9**
- AW-510 Acrylic Transition: **7-9**
- AR-520 Acrylic Roll-On: **7-9**
- MS-700 Modified Silane: **7-10**
- EW-710 Epoxy Wet-Set: **7-10**

If pH testing per ASTM F710 exceeds the above limits, the concrete must be sealed with a pH insensitive product, such as the Excelsior MM-100, prior to proceeding with installation. Install all sealers and/or primers per product technical data and/or installation instructions. Do not install flooring until material is dry to the touch.

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. Ensure to follow installation

procedures and trowel sizes for non-porous substrates.

GYP SUM BASED SUBSTRATES

Gypsum-based substrates must have a minimum compressive strength of 3500 PSI. Gypsum substrates that do not meet this requirement may have one coat of the Excelsior MM-100 installed to improve the strength of the substrate. Substrate must be structurally sound and firmly bonded to subfloor. 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 a sealant or primer. Follow all manufacturer's recommendations regarding preparation for resilient flooring installation.

WOOD SUBSTRATES

Wood substrates must be prepared in accordance with ASTM F1482. Wood subfloors should be of double layer construction with a minimum thickness of 1". Crawl spaces beneath wood subfloors shall be in compliance with local building ventilation codes and have at least 18" of cross-ventilated space between the ground and the joists. Wood joists should be spaced on not more than 16" centers.

Prior to installation, moisture retardant sheeting with a maximum rating of 1.0 perm must be installed beneath the wood subfloor, overlapped at least 8". For standard installations, use Underlayment Grade plywood with a minimum thickness of ¼" thick and a fully sanded surface. When floors may be subjected to moisture, use an APA approved exterior grade plywood.

Other wood subfloor materials, such as OSB, lauan, particleboard, chipboard or cementitious tile backer boards, are not acceptable subfloors. Avoid preservative-treated and fire-retardant plywood, as some may be manufactured with resins or adhesives that may cause discoloration or staining of the flooring.

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. Do not install on a sleeper system (wood subfloor system over concrete) or directly over Sturd-I-Floor panels.

METAL SUBSTRATES

Metal substrates must be thoroughly sanded/ground and cleaned of any residue, oil, rust and/or oxidation. Substrate must be smooth, flat and sound prior to installation. When installing in areas that may be subject to topical water or moisture and/or high humidity, an anti-corrosive coating must be applied to protect metal substrate. Contact a local paint or coating supplier for coating recommendations. Install flooring material within 12 hours after sanding/grinding to prevent re-oxidation. Any deflection in the metal floor can cause a bond failure between the adhesive and the metal substrate. Ensure to follow installation procedures and trowel sizes for non-porous substrates.

EXISTING FLOORING SUBSTRATES

The suitability of existing flooring as a substrate depends on the specific requirements of the adhesive being used to install the material. As such, refer to the adhesive requirements for existing flooring substrates and ensure all adhesive requirements and guidelines are followed.

RADIANT HEATING SUBSTRATES

When installing flooring over a substrate that contains a radiant heating system, ensure the radiant heat is turned off 48 hours prior to installation and remains off during the entire installation. 48 hours after installation, the radiant heat may be gradually increased over the course of 24 hours, until normal operating temperature is reached. 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. All minor cracks and voids 3/64" wide or less may be repaired with a suitable cementitious patch.

Due to the dynamic nature of concrete slabs, manufacturer cannot warranty installations to cover expansion joints,

legs must have permanent felt or soft rubber floor protectors installed on all contact points and to reduce indentation. Floor protectors must have a flat contact point of at least 1 sq. in. or 1 in. diameter and must cover the entire bottom surface of the furniture leg.

Ensure all furniture castors and chair legs are clean and free of any and all dirt and debris. Routinely clean chair castors and furniture legs to ensure that dirt or debris has not built up or become embedded in castors or floor protectors. Replace chair castors and floor protectors at regular intervals, especially if they become damaged or heavily soiled.

Place walk-off mats at outside entrances. Ensure mats are manufactured with non-staining backs to prevent discoloration.

7. INITIAL MAINTENANCE

Ensure that adhesive has cured for recommended period of time prior to conducting initial maintenance. Remove any protective coverings prior to cleaning. Sweep, dust mop and/or vacuum flooring to remove any dirt, dust or debris.

Mix 2-4 ounces of Excelsior NC-900 Neutral Cleaner per gallon of clean, potable water and clean floor using an Auto Scrubber with 3M 4100 White Super Polish Pads. In smaller or difficult to reach areas, use a clean mop to apply cleaning solution to floor. If flooring is heavily soiled, an additional cleaning may be required.

Use an auto-scrubber, wet vacuum or clean mop to remove any and all excess cleaning solution. Rinse area with clean, cool water and allow floor to dry entirely. Ensure flooring area is clean and that all cleaning residue has been removed (this may require additional rinsing).

Do not use detergents, abrasive cleaners or "mop and shine" type products, as they will dull the finish and sheen of the flooring material. Do not use vacuums that have a beater bar or electric brooms with hard plastic bottoms or no padding, as this may cause discoloration, scratching and loss of sheen.

Do not allow cleaning solutions to stand on flooring materials for extended periods of time, as the solutions could permeate beneath the flooring and cause adhesive issues. When wet, flooring will become slippery; therefore, use the appropriate caution tape and/or warning signs on the floor to eliminate traffic in cleaning area.

For further information regarding daily or routine maintenance as well as heavy cleaning, please consult the product maintenance document.

8. WARRANTY

6 Degrees provides a 10 Year Residential/ Multi-Family Limited Warranty. For additional information, see associated warranty documents.

Adhesive Traffic Limits

SP-500 Acrylic Aerosol

Foot Traffic:	Immediate
Heavy / Rolling Traffic:	Immediate
Maintenance:	48 Hours

AW-510 Acrylic Wet Set

Light Foot Traffic:	24 Hours
Heavy / Rolling Traffic:	48 Hours
Maintenance:	72 Hours

AP-520 Acrylic Roll-On

Foot Traffic:	Immediate
Heavy / Rolling Traffic:	Immediate
Maintenance:	72 Hours

MS-700 Modified Silane

Foot Traffic:	12 Hours
Heavy / Rolling Traffic:	24-48 Hours
Maintenance:	48 Hours

EW-710 Epoxy Wet Set

Foot Traffic:	8-12 Hours
Heavy / Rolling Traffic:	24-48 Hours
Maintenance:	72 Hours

FOR PROFESSIONAL USE ONLY. PLEASE CONSULT ALL ASSOCIATED TECHNICAL DATA SHEETS, SAFETY DATA SHEETS, MAINTENANCE DOCUMENTS, WARRANTY INFORMATION PRIOR TO INSTALLATION.