



# U-705 Urethane

## ADHESIVE TECHNICAL DATA

**Excelsior U-705 Urethane Adhesive** is a single component wet-set urethane adhesive used for the permanent installation of all resilient and athletic flooring products over porous and non-porous substrates. When cured it is water resistant and has high shear strength and is the perfect choice for areas with topical moisture, heavy traffic and rolling loads both indoors and outdoors including areas with sunlight and not climate controlled; it is a low odor, non-flammable, solvent-free and ready to use product

<b>Product Type</b>	Wet-Set Urethane Adhesive for porous (absorptive) and non-porous (non-absorptive) surfaces
<b>Characteristics</b>	Cream Colored Paste
<b>Packaging</b>	3 Gallon Unit
<b>Moisture Control Properties</b>	Not a moisture inhibitor or mitigation product
<b>ASTM F2170 - RH Limit</b>	99.9%, <i>in situ</i>
<b>ASTM F1869 - MVER Limit</b>	25 lbs. / 1000 sq. ft. / 24 hours
<b>ASTM F710 - pH Limit</b>	≤ 14
<b>ASTM D6004 - Adhesive Shear Resistance</b>	Excellent
<b>ASTM D6862 - 90° Peel Resistance</b>	Excellent
<b>ASTM D7888 - Plasticizer Resistance</b>	Excellent
<b>ASTM D7149 - Freeze Thaw Stability</b>	Non-Freezing
<b>ASTM F1337 - Shelf Life</b>	1 Years from Manufacturing Date

**Reading the Date Code** 02 February 2021

Day (02) Month (February) Year (2021)

Located on a white sticker on top of the pail

<b>Service &amp; Storage Temperature</b>	60° - 85° F Suitable for Outdoor Use
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*Shelf Life depends on proper storage within service & storage temperatures in unopened container*

*See installation document for full installation details regarding approved substrates, job site conditions and acclimation procedures.*

<b>Application Method</b>	Trowel Applied
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### Resilient Flooring Trowel Sizes & Coverage

**(Absorptive) Porous Substrates** 1/16" x 1/16" x 1/16" V Notch, 160 sq. ft. per Gallon

**(Non-Absorptive) Non-Porous Substrates** 1/16" x 1/32" x 1/32" U Notch, 225 sq. ft. per Gallon

### Athletic Flooring Trowel Sizes & Coverage

**(Absorptive) Porous Substrates** 3/32" x 3/32" x 3/32" V Notch, 135 sq. ft. per Gallon

**(Non-Absorptive) Non-Porous Substrates** 1/16" x 1/16" x 1/16" V Notch, 160 sq. ft. per Gallon

<b>Flash / Open Time</b>	<b>(Absorptive) Porous Substrates</b> Immediate Installation <b>(Non-Absorptive) Non-Porous Substrates</b> 10 - 15 Minutes
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<b>Working Time</b>	Adhesive Covered & Flooring Rolled within 40 Minutes
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## Access Times During & After Installation

Heat Welding ≥ 24 Hours

Light Foot Traffic ≥ 12 Hours

Heavy Foot Traffic and Rolling Loads ≥ 24 Hours

Maintenance ≥ 48 Hours

*Trowel Notch Dimensions are Depth x Width x Space*

*Coverage Rates are approximate and subject to level of porosity as well as ambient conditions, angle of the trowel, actual results may vary*

*Flash time and working time will vary with conditions; higher temps with higher humidity will be shorter than lower temps with lower humidity*

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## Attributes & Certifications

Contributes to LEED v4/4.1

≤ 0.0 grams/liter VOC Content (SCAQMD Rule 1168)

Meets SCAQMD Rule 1168 Requirements

Contains No Recycled Content

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## California Prop 65 Labeling

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm

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*The following information is provided as general guidance, always refer to the current installation information on the product website for the resilient flooring being installed for complete information*

## Approved Flooring Products

Rubber Tiles & Sheet

LVT/LVP

Solid Vinyl Tile

Quartz Tiles

Resilient Stair Treads

Athletic Flooring

Recycled Crumb Rubber Products

Underlayments

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## Approved Substrates & Surfaces

Concrete above, on, or below grade; properly prepared for moisture sensitive resilient flooring in place a minimum of 45 days

APA rated plywood underlayment

Properly prepared Portland cement based patches & underlayments

Properly prepared Gypsum cement based underlayments

Properly prepared VCT, VAT, Quartz Tile, Solid Vinyl Tile, Vinyl Sheet Goods

Properly prepared Ceramic Tiles

Properly prepared Stone & Terrazzo Tiles

Properly prepared Steel & Aluminum

Epoxy Mitigation & Sealers (100% solid and fully cured)

Stained concrete that is sound, smooth and free of waxes, cleaners and any other bond inhibiting substances

Radiant heated sub-floors

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## Site Requirements

During acclimation, the site must be fully enclosed, weather tight, and material must be in the installation area with the HVAC system functional and operating at desired service temperatures for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards.

It is recommended to maintain an ambient relative humidity between 40% and 60% for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards.

## Substrate Requirements

All substrates must be prepared according to the information contained within the product installation instructions.

Concrete substrates, whether on-grade and/or below grade must have an intact and effective moisture vapor barrier which meets the current requirements of ASTM E1745.

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, 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.

## Adhesive Clean-Up

Uncured Adhesive can be removed with solution of 70% isopropyl alcohol and a clean cloth.

Cured adhesive will be difficult to remove from wall and flooring surfaces, ensure removal prior to curing.

## Product & Substrate Restrictions

Not designed for use with products manufactured with polyolefin, polyethylene, or polypropylene.

Not designed for use on substrates that have been exposed to adhesive removers, solvents, or chemical cleaners.

## Disposal

Disposal in accordance with local, state and federal regulations.

Do not allow product to get into drains, watercourses, or landfills.

Hardened product residues are considered construction waste.

Empty packaging is recyclable.

## Product Warranty

1 Year Manufacturers Warranty

*See product warranty for full details regarding bond warranty, limitations, and warranty coverage.*

## Technical Support

[solutions@rhctechnical.com](mailto:solutions@rhctechnical.com)

## Product Support

[solutions@rhctechnical.com](mailto:solutions@rhctechnical.com)

## Technical Documentation

[www.excelsiorproducts.net](http://www.excelsiorproducts.net)