

PRODUCT DESCRIPTION

Excelsior C-631 Water Based Contact Adhesive is an aggressive contact adhesive used for the permanent installation of vinyl and rubber resilient flooring, stair treads, wall base, flash coving and accessories in horizontal or vertical installations over porous and non-porous substrates in indoor applications; it is a low odor, non-flammable, and solvent-free product

Product Color & Appearance	Beige Paste
Product Packaging Options	1 Quart Unit
Coverage Rate ¹	20 – 40 sq. ft. per Quart 120 – 140 lin. ft. per Quart
Setting Characteristics @ Full Cure ²	Firm-Set Adhesive

MOISTURE REQUIREMENTS

Moisture Control Properties	Not a Moisture Inhibitor or Moisture Mitigation Product
ASTM F2170 – RH Limit	85%, <i>in situ</i>
ASTM F1869 – MVER Limit	6 lbs. / 1,000 sq. ft. / 24 hours
ASTM F710 – pH Limit	≥ 7 - ≤ 10

PRODUCT PERFORMANCE PROPERTIES

VOCs (California Rule # 1168 SCAQMD)	≤ 0.1 grams / Liter
ASTM D6004 – Adhesive Shear Resistance	Excellent
ASTM D6862 – 90° Peel Resistance	Excellent
ASTM D7888 – Plasticizer Resistance	Excellent
ASTM D7149 – Freeze Thaw Stability	Excellent Up to 5 Cycles, Not falling below 0° F
ASTM F1337 – Shelf-Life ³	1 Year from Manufacturing Date
Reading Manufacturing Date Code	B210201515293 Ignore the B, focus on the 210201 which is Year (21) Month (02) and Day (01), ignore the balance as it is for batching information for manufacturer It is located on the lower left corner of the label under the UPC code
Service & Storage Temperature	60° - 85° F
Indoor / Outdoor Suitability	Indoor Use Only

APPLICATION & WORKING PROPERTIES

Porosity or **Absorption** in relation to the substrate is *the process by which a liquid is drawn into and tends to fill permeable pores in a porous solid body* as defined in ASTM F3191 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring. It is critical to determine porosity or absorption rates of the substrate prior to the application of the adhesive to determine the appropriate application method.

Contact Application Method – Approved for all Wall Base Types

Utilized on Non-Porous or Non-Absorptive Substrates only. Adhesive is ready for installation of product, usually within 20 minutes of application. Follow the working time listed and adjust for conditions.

Application Method	Paint Roller or Brush Application to Both Surfaces
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Flash / Open Time ⁴	Dry to Touch, No Transfer to Finger
Working Time ⁵ (Base Installed & Rolled)	Adhesive Covered & Product Rolled within 6 Hours

COVERAGE, CLEAN UP, WAIT TIMES

Coverage Per Unit	20 – 40 sq. ft. per Quart 120 – 140 lin. ft. per Quart
Adhesive Clean Up	Do not allow adhesive to dry on the surface as it may permanently discolor the surface. Wet adhesive is recommended to be cleaned with warm soapy water. Mineral spirits and solvents should not be applied directly to flooring and used sparingly as it could damage the surface. Should be rinsed with neutral cleaner and clean water after using mineral spirits.
Allotted Timeframes for Post-Installation Activities	Heat Welding & Light Foot Traffic ≥ 24 Hours Maintenance Activities ≥ 72 Hours

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.

NON-APPROVED SUBSTRATES

- Concrete substrates that have been abated or prepared with chemical adhesive removers, solvents, or chemical cleaners.

APPROVED SUBSTRATES

- Concrete above, on, or below grade; properly prepared to receive moisture sensitive resilient flooring that has been in place a minimum of 45 days.
- Properly prepared APA rated plywood underlayments.
- Properly prepared Portland cement-based patches & underlayments.
- Properly prepared & primed Gypsum cement-based underlayments meeting the requirements of ASTM F2419 – Standard Practice for Installation of Thick Poured Gypsum Concrete Underlayments and Preparation of the Surface to Receive Resilient Flooring.
- Properly prepared Steel & Aluminum.
- FRP or Similar Wall Coverings.
- Coated or Heavily Textured Wallpaper.
- Radiant-heat systems that have been properly installed and operating at a surface temperature no higher than 85° F (29° C).
- Properly installed and prepared moisture mitigation systems.

SUBSTRATE REQUIREMENTS

- All substrates must be prepared according to the information contained within the product installation instructions.
- Substrates must be clean, smooth, permanently dry, flat, and structurally sound.

DISPOSAL INFORMATION

- Dispose in accordance with local, state, and federal regulations.
- Do not allow products to get into drains, watercourses, or landfills in a wet state. Hardened product residues are considered construction waste.
- Empty packaging is recyclable.

ATTRIBUTES, CERTIFICATIONS, & REGULATORY INFORMATION

- Manufactured in Olive Branch, Mississippi
- Contributes to LEED v4/4.1 Requirements
- Achieved FloorScore Certification
- Meets California Department of Public Health V1.2 (CA Section 01350) requirements
- Meets South Coast Air Quality Management District rule #1168 requirements
- Does Not Contain Recycled Materials
- Qualifies for American Made Products Acts and/or Requirements
- 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.

SUPPORT & ADDITIONAL DOCUMENTATION

Product Support Phone & Email	(844) 393 – 4044 / solutions@rhctechnical.com
Technical Documentation	www.excelsiorproducts.net
Associated or Related Documentation	Excelsior Products Warranty FloorScore Certificate SDS Sheet

¹ Coverage Rates are approximate and subject to the level of porosity as well as ambient conditions, angle of the trowel, age of the trowel, etc. Actual results may vary.

² Full cure is typically achieved within 30 days of application of adhesive and covering with approved resilient floor covering utilizing the appropriate methods for the conditions of the substrate in which adhesive is being applied.

³ Shelf Life depends on proper storage within service & storage temperatures in unopened original containers.

⁴ Trowel Notch Dimensions are standard Depth x Width x Space.

⁵ Flash Time is the time allowed between the application of the adhesive and the placement of the flooring. This will vary depending on site conditions including temperature humidity, absorption rates, trowel wear, etc.; higher temps with higher humidity will be shorter than lower temps with lower humidity. Conditions listed are determined at 70° F (21° C) & 50% RH.

⁶ Working Time is the time allowed between the adhesive being ready for placement of the flooring and when the adhesive should be completely covered with flooring and rolled. This will vary depending on site conditions including temperature humidity, absorption rates, trowel wear, etc.; higher temps with higher humidity will be shorter than lower temps with lower humidity. Conditions listed are determined at 70° F (21° C) & 50% RH.

The contents contained within this Technical Data Sheet (TDS) may be utilized or copied into another projected related document, but this original document will remain in effect at the time of product installation, this TDS shall not be supplemented or replaced by the resulting project documentation. **Any alterations to the wording or requirements contained in or derived from this document shall void all related warranties.**

See installation information and documents for full installation details regarding substrates, job site conditions, & acclimation procedures. The intent of this document is to provide technical and performance properties of the mentioned adhesive as well as define the intended method of installation for the products in which the adhesive is approved for use. Any installation guidelines are to be considered as a starting point at a minimum for a successful installation. We rely on the expertise and professionals that are installing the products to adjust based on site conditions. Anything that appears to be a link, is and leads to additional information if necessary or provides a means of contact in the event there are any additional questions. Prior to acceptance of this document refer to the product website to confirm that you have the most current revision.

These products are intended for installation by professionals, prior to use the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability.