

DESCRIPTION

NWR 1-Part Adhesive is a moisture-curing, one-component, polyurethane polymer adhesive specifically designed for the direct bonding of high-performance rubber sports flooring. Its unique formulation is perfectly suited for most types of rubber sports flooring and provides an aggressive and durable bond.

FEATURES AND BENEFITS

- 100%-solids formulation, with no solvent added.
- Excellent green strength.
- Low-odor formula with negligible VOC content.

WHERE TO USE

- Interior rubber sports-flooring installations in professional and educational athletic and fitness centers.
- Commercial and residential installations of rubber sports-flooring and underlayment.

LIMITATIONS

- Do not install over any substrates containing asbestos.
- Do not apply over any adhesive residues, including cutback adhesive.
- Install only in areas recommended by the flooring manufacturer.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient relative humidity is between 20% and 80%. Note: When the ambient relative humidity is lower than 20%, longer curing times will be expected.
- Do not install when the moisture vapor emission rate (MVER) exceeds 8lbs. per 1,000 sq. ft. (3.63kg per 92.9m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install when the relative humidity (RH) of the concrete slab exceeds 90% (ASTM F2170).
- Do not use as a leveling, patching or subfloor repair material.
- Do not install unless the surface temperature of the substrate is at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point.
- Do not install when the pH is greater than or equal to 11.

SUITABLE SUBSTRATES

- Concrete at least 28 days old, installed per ASTM F710 guidelines.

- Cement terrazzo.
- Exterior-grade plywood and other approved wood substrates (per the rubber-flooring manufacturer's recommendations).
- Existing ceramic tile.
- Cement-based self-leveling underlayment and patching compounds.
- Acrylic, epoxy or polyurethane moisture-reducing or moisture-barrier membranes.
- Primed gypsum underlayment that meet the requirements for compressive strength according to ASTM F2419.
- Properly installed radiant-heating systems.
- Consult North West Rubber's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPERATION

- All substrates must be prepared in accordance with the sports-flooring manufacturer for the type of intended use and must comply with current regulations or standards.
- All substrates must be structurally sound, dry, solid, stable, level, and flat.
- Substrates should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.
- Concrete and cement-based underlayment and patches must be fully cured and free of any hydrostatic pressure.

MIXING

Note: Wear all appropriate personal safety equipment during use. Refer to Safety Data Sheet (SDS) for more information.

- Ready to use; no mixing is necessary.

PRODUCT APPLICATION

1. Read all installation instructions thoroughly before installation.
2. Select the appropriately notched trowel (see "Approximate Product Coverage" section).
3. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
4. Only apply as much as can be installed within 30 to 50 minutes.
5. Install flooring in strict accordance with the flooring manufacturer's written instructions.
6. Adhesive transfer to the backing should be confirmed periodically by lifting the flooring material.

CLEANUP

- *NWR 1-Part Adhesive* is extremely difficult to remove when cured.

- Immediately use a urethane cleaner to clean tools and any adhesive smudges from the flooring material's surface while the adhesive is still fresh/wet.

PROTECTION

- Protect the installation from light traffic for at least 12 hours, and from heavy traffic for at least 24 hours.

Building owners should be advised of the flooring manufacturer's guidelines for climate control settings (temperature and humidity). These conditions must be monitored and kept constant in order to ensure the overall performance and long-term success of the installation.

Product Performance Properties

Laboratory Tests	Results
Solids content	100%
Density	10.5 lbs. per U.S. gal. (1.25 g per mL)
VOCs (Rule #1168 of California's SCAQMD)	15 g per L
VOCs (Section 01350 of California's CDPH)	Passed
Flash point (Tag)	>200°F (93°C)

Shelf Life and Product Characteristics

Shelf Life	1 year when stored in original, unopened packaging at 73°F (23°C)
Adhesive type	Moisture-cured polyurethane
Consistency	Smooth paste
Colour	Tan
Storage conditions	50°F to 90°F (10°C to 32°C)

Protect containers from freezing in transit and storage. If frozen, material should not be stirred until it has completely thawed. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties at 73°F (23°C) and 50% RH

Flash Time [†]	Working Time ^{††}
0 Minutes	30 to 50 minutes

†Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of floor covering.

††Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

Note: Working time may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

Packaging

Size
Metal pail, 4 U.S. gals. (15.1 L)

Approximate Coverage – Direct Bonding Method*

Flooring Type	Typical Trowel	Coverage
Rubber flooring and underlayments	1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm) square-notch	75 to 95 sq.ft. per U.S. gal. (1.84 to 2.33 m ² per L)

**Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices.*

INDUSTRY STANDARDS AND APPROVALS

LEED Points Contribution LEED Points

MR Credit 5, Regional Materials*	Up to 2 points
MR Credit 6, Rapidly Renewable Materials	1 point
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants	1 point

*Using this product may help contribute to LEED certification of projects in the categories shows above. Points are awarded based on contributions of all project materials.

Related Documents:

Refer to the SDS for specific data related to health and safety as well as product handling.

LEGAL NOTICE

The contents of this Technical Data sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the product installation. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED WARRANTIES.** Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIMS SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO USE WITHIN THIRTY (30) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**