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Technical Newsletter #33 3.0

Subject: Minimum Adhesive Requirements for MIRAGE Lock Flooring

This Technical Newsletter outlines the minimum performance requirements for adhesives used with MIRAGE Lock flooring systems. Adhering to these requirements helps ensure proper installation and long-term floor performance.

Users are responsible for ensuring that the adhesive they select meets the requirements mentioned below. MIRAGE does not evaluate or certify adhesive products and therefore cannot guarantee the following:

1. Consistency of adhesive performance and properties
2. Chemical composition, including VOCs, formaldehyde, and other substances
3. Application, curing, or cleanup procedures
4. Warranty administration and claim resolution processes

The adhesive manufacturer must provide written confirmation that the selected product meets or exceeds all minimum requirements specified by MIRAGE. The adhesive manufacturer must also assume sole responsibility for meeting all criteria mentioned in this document.

Flooring issues resulting from adhesive selection, adhesive performance, or installation methods are not covered under the MIRAGE warranty.

Choosing the right adhesive is a critical step in ensuring the long-term integrity of your floor.

MIRAGE Lock			
Criteria	Standard	Specification	Benefit if criteria is met
Water content		0%	To avoid water damage and not compromise installation
▲ Green grab		Holds ridges High initial grab	To hold product on uneven subfloor To facilitate installation, avoid floor/board misalignment
■ Shear strength	EN 14293	72 psi (0.5 Mpa)	To ensure good bonding and performance
■ Elongation at break	EN 14293 (modified)	Between 40 and 400%	To allow appropriate expansion
■ Tensile strength	EN 14293	90 psi (0.6 Mpa)	To ensure good bonding and performance
OR			
■ Tensile strength	ASTM D-412 (method a)	72 psi (0.5 Mpa) (7-day cure)	To ensure good bonding and performance
■ Elongation at break	ASTM D-412 (method a)	Between 40 and 400%	To allow appropriate expansion
■ Creep of an assembly ¹ (tensile or shear)	EN 14293 (modified) or Lap shear or Equivalent standard	Max. 1 mm elongation (at loading) 30 psi (0.2 Mpa) loading (30 min.) (7 day cured assembly)	To avoid buckling, excessive expansion, or performance problems To ensure <u>long term</u> performance/stress resistance
Adhesive transfer		> 80%	To ensure good bonding
▲ Curing time		Max. 24 hrs	Excessively long cure times can lead to installation issues
Service temperature		20 to 110°F (-6 to 43°C)	To sustain variable temperature and radiant heat systems
Warranty		Lifetime	To match MIRAGE warranty

▲ Impacted installation (time required and/or ease of installation)

Note: ASTM D-412 and EN 14293 do not necessarily correlate.

■ Properties that have an impact on product performance (expansion, cupping)

The following points can't be managed by MIRAGE but are critical when choosing an adhesive:

- Spread rate² (adhesive consumption)
- Underlay compatibility
- Subfloor compatibility
- Warranty exclusions
- Concrete sealer system: meets 3 lb./1,000. sq. ft /24 hrs
- Resistance to moisture/alkalinity (in concrete)
- Sealer/adhesive compatibility (refer to manufacturers)

¹ Assembly: typical wood or concrete floors (or similar to concrete)

² Note that the required spread rate for 3/4" or 9/16" thick hardwood floors is equivalent to the 1/2" thick. For 3/4" or 9/16" thick flooring installation, we recommend using the same trowel designed for 1/2" thick hardwood floors. Refer to glue manufacturer for trowel's recommendations & requirements according to 1/2" thick hardwood floors. It is important to choose the trowel based on installation site characteristics such as subfloor flatness in order to obtain a minimal transfer of 80% this criteria being predominant.