

## 11 ACRYLIC ADHESIVE (MP 900)

**NOTE:** Acrylic adhesives require a porous substrate and therefore cannot be used over moisture reduction barriers/sealers (MRB).

**NOTE:** MP 900 is intended for commercial flooring installations. For sport flooring installations, please use Mondo urethane or epoxy adhesives, depending on the desired application.

**NOTE:** Acrylic adhesives must only be used on a porous substrate. Acrylic adhesives cure through the evaporation and dissipation of moisture. If a substrate is not porous, the adhesive will not cure and a failure is inevitable. Before proceeding with an installation using Mondo MP 900 acrylic adhesive, verify the concrete porosity (Refer to Mondo's current Subfloor Preparation Guidelines for instructions).

### 11.1 DESCRIPTION

MP 900 is a solvent-free acrylic-based adhesive specially designed for the permanent installation of Mondo commercial products, roll goods and tiles. MP 900 has an outstanding plasticizer migration resistance. When dry, MP 900 has a strong bond which limits the dimensional movement of the Mondo commercial flooring products.

### 11.2 LIMITATIONS

**MP 900 is for indoor installations only.**

**DO NOT USE** on substrate with moisture problems. **Moisture vapor emissions must not exceed 3 lbs/1,000 ft<sup>2</sup> (1.36 kg/93 m<sup>2</sup>)** in 24 hours, when tested with the anhydrous calcium chloride test, as per ASTM F1869. **Relative humidity in the concrete slab must not exceed 75%**, when tested with in situ probes, as per ASTM F2170.

**NEVER** use over gypsum based substrates.

**DO NOT USE** when the substrate temperature is below 65° F (18° C) or above 86° F (30° C), or when relative humidity exceeds 65%.

**DO NOT USE** over non-porous surfaces. If in doubt please contact Mondo's Technical Department for recommendations.

**DO NOT USE** on Mondo Everlay.

**DO NOT USE** with Mondo sport products.

### 11.3 RECOMMENDED SUBFLOORS

- a) A fully cured concrete substrate. Refer to section 1.2. of Mondo's current Subfloor Preparation Guidelines, for all recommendations regarding concrete slabs.

**Note:** Concrete subfloors must be completely cured (28 days minimum) and free from moisture vapor emissions and alkali conditions. **Moisture vapor emissions must not exceed 3 lbs/1,000 ft<sup>2</sup> (1.36 kg/93 m<sup>2</sup>)** in 24 hours, when tested with the anhydrous calcium chloride test as per ASTM F1869. **Relative humidity in the concrete slab must**

**not exceed 75%, when tested with in situ probes as per ASTM F2170. The pH of the concrete slab must be between 7 and 8.5.**

- b) A wood substrate that is recommended or guaranteed by the wood underlayment manufacturer, such as APA Exterior or CANPLY Exterior grade plywood, Group 1, CC type. Refer to section 1.3. of Mondo's current Subfloor Preparation Guidelines, for all recommendations regarding wood bases.

## **11.4 SURFACE PREPARATION**

All substrates must be structurally sound, smooth, solid, level, well fastened, dry, clean and free of dust, oil, grease, paint, tar, wax or any deleterious substances such as concrete hardeners and curing agents, which may prevent or reduce adhesion. The substrate should be inspected and must meet Mondo's current Subfloor Preparation Guidelines. Consult Mondo's Technical Department for copies of all guidelines.

## **11.5 MIXING**

**MP 900 IS READY TO USE.** Simply quick mix and spread.

## **11.6 TROWEL SIZE**

Trowel size must comply with our recommendations for the flooring product to be installed. See appropriate Mondo Commercial Installation Manual for recommended trowel or consult Mondo's Technical Department for additional support.

Jobsite/substrate conditions will affect spread rate, it may be necessary to adjust trowel size or perform additional surface preparation.

## **11.7 APPLICATION**

- 1) Refer to the appropriate Mondo Commercial Installation Manual section for a detailed installation procedure of the specified commercial flooring product.
- 2) A bond test should be performed before proceeding with an installation using MP 900. (In Mondo's current Subfloor Preparation Guidelines, refer to section 1.2.2. Performing a Bond Test.)
- 3) Verify porosity before proceeding with an installation using MP 900 adhesive.
- 4) Use the recommended notched trowel with sufficient depth to ensure that at least 90% of the adhesive transfers to the material backing.
- 5) Allow the spread adhesive a few minutes of flash time before placing flooring material into it (10 minutes of open time). Proper adhesive transfer to the material backing should be confirmed periodically by lifting the flooring material and inspecting the backing for a minimum 90% transfer.

**Note: The porosity and bond tests will help you determine the appropriate flash time.**

- 6) Push out air using the recommended method, as described in the specified product's installation procedure.
- 7) Promptly clean adhesive smudges from flooring material surface with water, while adhesive is still fresh.
- 8) Promptly wash tools and hands with water while the adhesive is still fresh.
- 9) Do not walk over a newly laid installation before 24 hours and do not allow heavy or rolling traffic before 72 hours. If needed, protect the installation with 1/8" Masonite or 1/4" plywood.

**11.8 PHYSICAL PROPERTIES**

Open time at 72°F (22°C)	
50% relative humidity.....	10 min.
Setting time at 72°F (22°C).....	24 hrs. (72 hrs. for rolling loads)
Freeze/thaw stability at 0°F (-18°C).....	Stable 5 cycles
Flash point (water based product).....	>100°C (212°F)
Tolerance of vapor emissions from concrete slab (ASTM F1869 Anhydrous Calcium Chloride Test).....	Maximum 3lbs./1,000ft <sup>2</sup> /24 hrs.
Tolerance of relative humidity in concrete slab (ASTM F2170 Relative Humidity Test (in-situ probes).....	Not to exceed 75%
Cleaning.....	With water while adhesive is fresh
Color.....	White bone
Consistency.....	Buttery

**Pails: 3.96 US gal. (15 L)**

**Shelf life is approximately 24 months when stored in original containers at room temperature in a dry heated area. Product will skin over if container is left open for too long.**

**NOTE: Consult the material safety data sheet for more information.**

**11.9 PROTECTION**

- 1. **Protect containers from freezing in transit and storage. This product is freeze/thaw stable at temperatures down to 0° F (-18° C). However, it is recommended to protect all water-based products from freezing. If frozen, do not stir until material has completely thawed.**
- 2. **Provide for heated storage on site and deliver all materials at least 24 hours before work begins.**
- 3. **No foot traffic for a minimum of 24 hours after installation and no heavy or rolling loads (wheels, carts, etc.) for a minimum of 72 hours in order to allow proper adhesive set-up and curing. Failure to follow this recommendation can lead to dispersion of adhesive under the flooring prior to proper setting and can result in unwanted air pockets and bubbles.**

**NOTE: Refer to material safety data sheets (MSDS) for more information regarding use, application, limitations and safety.**



**THIS PRODUCT IS NOT CONTROLLED UNDER THE CANADIAN REGULATION WHMIS.**

**CONTENT:**

**NJ TNRN 930 – This product does not contain any chemicals reportable under American Federal OSHA 29CFR 1910.1200.**

In the event of a chemical emergency, spill, leak, exposure or accident,  
in Canada call **CANUTEC 613 996-6666**  
in USA call **CHEMTREC 800 424-9300**

**KEEP OUT OF THE REACH OF CHILDREN.**

## **DISCLAIMER**

These instructions conform to commonly accepted installation techniques in use with Mondo floor coverings. However, Mondo will not accept any liability whatsoever for any incorrect implementation of these instructions nor for any failure of equipment, paint & primers, leveling compounds, adhesives or other products not manufactured by Mondo that are referenced in these instructions nor for any adverse handling, climatic or environmental conditions that may affect such installation.

The above installation recommendations are provided for general guidance only. Mondo assumes no responsibility neither for actual work performed nor for loss or damage that may result from the use of this information due to variations of processing or working conditions outside our control. Users are advised to confirm suitability of products by their own tests.

Warranty only extends to quality and performance of rubber flooring.

**WARNING: Should you have any concerns or be unsure about subfloor conditions or installation procedures, please call our Technical Department. We shall not be liable for incidental and consequential damages, as defined under the uniform commercial code, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instruction or for other than the intended use. Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. Our liability is expressly limited to replacement of defective goods. 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.**

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