

## MONDO MP 1000 ACRYLIC ADHESIVE

DISCLAIMER: Refer to page 5 of this document.

### 1.1 DESCRIPTION

Mondo MP 1000 is high performance, solvent-free acrylic-based adhesive, specially designed for the permanent installation of Mondo resilient commercial flooring products.

**NOTE: Mondo MP 1000 is intended for indoor commercial flooring installations\* over concrete or wood. For indoor sports surfacing installations, please refer to one of Mondo's reactive adhesives. Consult Mondo's Technical Department for further assistance.**

Mondo MP 1000 is a single component adhesive that flashes quickly to a tacky state, and it has an outstanding plasticizer migration resistance.

**NOTE: It is highly recommended to verify the porosity of the base prior to using an acrylic adhesive (refer to Mondo's current Surface Preparation manual for additional information). Acrylic adhesives cure through the evaporation and dissipation of moisture; in the absence of porosity the adhesive will not cure properly which will likely result in bond failure.**

*\*Copies of base surface preparation guidelines can be obtained from Mondo's Technical Department.*

### 1.2 LIMITATIONS

**DO NOT USE** over non-porous surfaces.

**DO NOT USE** directly over moisture mitigation systems (moisture sealers, etc.).

**DO NOT USE** over Mondo Everlay.

**DO NOT USE** with Mondo indoor sports surfacing.

**DO NOT USE** over a base surface that has been covered with or contains bond inhibitors (like paint, wax, dust, oil or grease, sealers or curing agents, surface hardeners, solvents, asphalt, old adhesive residues, etc.). **Contaminants are to be mechanically abated; use of abatement chemicals is not recommended.**

**DO NOT USE** over gypsum-based products. If you have such a base, communicate with Mondo's Technical Department for further instructions.

**DO NOT USE** when moisture content of the base surpasses adhesive tolerances, as expressed in section 1.3 under point f).

**DO NOT USE** when the substrate temperature is below 50°F (10°C) or above 90°F (32°C).

**DO NOT USE** outdoors.

### 1.3 BASE SURFACE PREPARATION

- a) **Effective base preparation is key, in order to obtain a good bonding surface for the adhesive that will be used to install Mondo resilient flooring. Refer to Mondo's current Surface Preparation manual for all requirements.**
- b) **New concrete must be allowed to cure a minimum of 28 days**, having a compressive strength of at least 3500 psi (25 MPa). However, consider that drying time is typically 4 weeks for every 1-inch thickness of slab (Example: a 6" slab will take around 24 weeks to adequately dry).
- c) Concrete bases must be smooth and level within a tolerance of 1/8" (3 mm) in a 10-foot (3.05 m) radius. *NOTE: Mondo does not recognize the "F" numbers: FF (floor flatness) and FL (floor levelness).* Minor surface cracks or grooves must be filled with a good quality Portland cement-based patching or leveling compound (such as Mapei or Ardex). High spots, bumps and peaks must be repaired prior to installation. Mondo recommends a magnesium trowel finish. **NOTE: While a smooth surface is desired, a shiny, slick, non-porous or over-porous slab is not acceptable and will require additional preparation prior to flooring installation. Once the concrete surface preparation is complete, you should have a CSP (Concrete Surface Profile) of about 1.**
- d) Concrete slabs must be dry, sufficiently porous, smooth, clean and free of bond inhibitors (paint, wax, dust, oil or grease, sealers or curing agents, surface hardeners, solvents, asphalt, old adhesive residues, etc.). Concrete surfaces that are powdery or scaly are not acceptable. **Contaminants are to be mechanically abated**, such as light to medium shot-blasting (ICRI CSP #3 to #5 profile). **Do not use abatement chemicals. NOTE: Advise flooring contractor, in writing, of any contaminants that were removed so that removal effectiveness can be verified with a bond test.**
- e) Maintain stable room and base temperatures prior to moisture testing and flooring installation, during the flooring installation, as well as a minimum of 48 hours after the flooring has been completely installed. Recommended ambient temperature range is between 65°F and 86°F (18°C and 30°C), and recommended ambient humidity range is between 35% and 55%. **NOTE: Ensure HVAC unit is operational for controlled temperature and humidity, needed for both accurate moisture testing results and stable ambient conditions during installation.**
- f) Base must be dry, free of hydrostatic pressure and/or other types of moisture-related problems. Moisture and alkalinity test results must be within the specified adhesive's tolerances. **NOTE: MONDO WILL NOT GUARANTEE THE ADHESION OF ITS RESILIENT FLOORING TO A BASE WITH RELATIVE HUMIDITY AND/OR MOISTURE VAPOR EMISSIONS EXCEEDING THE TOLERANCE OF THE SPECIFIED ADHESIVE, AS EXPRESSED BELOW:**
  1. **INDOOR installations over concrete:** Never attempt testing until the HVAC unit has been operational for at least 7 days and/or site conditions (temperature and humidity) are constant in the building and reflective of in-service conditions. The pH should be between 7 and 10; readings below 7 and in excess of 10 could negatively impact adhesion. **The concrete's moisture vapor emission rate (MVER) must not exceed 5lb/1,000ft<sup>2</sup> (2.27 kg/92.9 m<sup>2</sup>) in 24 hours**, when tested per ASTM F1869 (anhydrous calcium chloride). **The relative humidity in the concrete slab must not exceed 85%**, when tested per ASTM F2170 (in-situ probes) with the aid of a Wagner RH moisture meter. Note that moisture tests will help confirm whether the slab is dry enough to proceed with the installation but it does not mean that the slab will always remain dry.
  2. **INDOOR installations over wood:** Ensure exterior grade plywood with at least one good side, such as: APA (Engineered Wood Association) Exterior grade plywood (A-A Exterior, A-B Exterior or A-C Exterior) and CANPLY (Canadian Plywood Association) Exterior certified plywood (Canada: Grade G2S A-A or G1S A-C. USA: Grade G2S A-A, A-B, B-B or G1S A-C and B-C). There must be proper

underfloor ventilation, **plywood must be dry and should have a moisture content ranging from 6% to 12%**, when measured with a quality wood moisture meter (electronic hygrometer).

- g) **DO NOT** proceed with the installation of the resilient flooring until all jobsite conditions are met and surface preparation is complete.
- h) Once surface preparation is complete, vacuum entire room prior to installation (remove all dust, loose dirt and debris). **DO NOT use sweeping compounds**. If desired, use damp (not wet) sawdust to help with any manual sweeping.
- i) Allow all flooring products, adhesives and accessories to acclimate prior to their use/installation.
- j) **Flooring installation shall not commence until the building is enclosed and all other trades have completed their work.**

## 1.4 MIXING

Mondo MP 1000 is ready to use.

**NOTE: In colder climates, if product received has frozen, you must allow it to thaw completely before stirring. See section 1.8 Protection.**

## 1.5 TROWEL SIZE

Trowel size must comply with listed recommendations for the specified resilient flooring product to be installed; refer to current installation instructions for details on the recommended trowel for the specified resilient flooring product or consult Mondo's Technical Department for additional support.

Jobsite and base conditions can affect adhesive spread rate; it may be necessary to adjust trowel size or perform additional surface preparation. It is recommended that you **replace trowels periodically** to ensure that the teeth of the trowel do not get worn down and that the adhesive spread remains consistent. In all cases, ensure that selected trowel allows for a **minimum of 95% adhesive transfer to the flooring**; adjust trowel size when needed to provide best results.

## 1.6 APPLICATION

- a) **Refer to specified resilient flooring's current and detailed installation instructions.**
- b) It is highly recommended to perform porosity and bond tests on all surfaces that will be receiving resilient flooring (refer to Mondo's Surface Preparation manual for detailed instructions), confirming that the bond strength is adequate. **NOTE: The porosity and bond tests will also help you determine the appropriate open time.**
- c) Use the recommended notched trowel with sufficient depth to **ensure that at least 95% of the adhesive transfers to the material backing**. Allow the spread adhesive a minimum of 10 minutes of open time before gently placing flooring into it. **Proper adhesive transfer to the material backing should be confirmed periodically by lifting the resilient flooring and inspecting its backing**. Special care must be taken so that the adhesive is not applied too thinly or too thickly which could result in a mound.

- d) Use water to clean up any accidental adhesive spills or smudges as they occur, while the adhesive is still wet. **NEVER USE SOLVENT-BASED PRODUCTS** as they could discolor the resilient flooring.
- e) Remove any entrapped air between the base’s surface and the resilient flooring using the recommended method (refer to specified flooring’s current and detailed installation instructions for recommendations on removing entrapped air).
- f) When necessary, refer to specified resilient flooring’s current installation instructions for all recommendations regarding weighing down stubborn seams.
- g) **No foot traffic shall be allowed onto the flooring for a period of 24 hours after its installation and no heavy traffic or rolling loads (wheels, carts, etc.) shall be allowed onto the flooring for a period of 72 hours after its installation, in order to ensure proper adhesive set-up and curing.** Failure to follow this recommendation can lead to dispersion of the fresh adhesive under the flooring and can result in unwanted air pockets, bubbles and/or mounds. Use 1/8” Masonite or 1/4” plywood to protect the surface of the flooring during this time (or block access to the area).

**1.7 PHYSICAL PROPERTIES**

Working time at 72°F (22°C) and 50% ambient humidity	15-30 minutes
Initial setting time at 72°F (22°C)	8 hours
Final setting time at 72°F (22°C)	24 hours
Freeze/thaw stability at 0°F (-18°C)	Stable 5 cycles
Flash point (water based product)	>100°C (212°F)
Flammability part A	Not flammable
Max. moisture vapor emissions rate (ASTM F1869)	5lb/1,000ft <sup>2</sup> /24hr or less
Max. concrete relative humidity (ASTM F2170; using Wagner meter)	85% or less
Cleaning (while adhesive is still fresh)	Water
Color	Off-white
Consistency	Buttery
Format*	4 US gal. pail (15.14 L)
Indoor Air Quality	Green Label Plus Certification

\*Shelf life is approximately 12 months from date of manufacturing; do not store adhesive for extended periods of time after delivery from supplier. It is recommended to always store adhesive in its original container, at room temperature and in a dry heated area. **NOTE: Product will skin over if container is left open for too long.**

**1.8 PROTECTION**

- a) Protect adhesive containers from freezing in transit and storage. Mondo MP 1000 is freeze/thaw stable (5 cycles) at temperatures down to 0°F (-18°C). However, it is recommended to protect all water-based adhesives from freezing. **If frozen, do not stir until product has completely thawed. Once thawed, gently stir to homogenize.**
- b) Ensure climate controlled storage on site, inside the range of 40°F to 100°F (4°C to 38°C). Deliver all materials a minimum of 24 hours before work is scheduled to begin.
- c) **Refer to adhesive’s safety data sheet (SDS) for all safety-related details concerning transportation, exposure, handling and use.** A copy of the SDS can be obtained from Mondo’s Technical Department.

**DISCLAIMER**

These instructions conform to commonly accepted techniques for the installation of resilient flooring. However, Mondo will not accept any liability whatsoever for any incorrect implementation of these instructions nor for any failure of equipment, paints and primers, patching and leveling compounds, adhesives or any other product not manufactured by Mondo but that may be referenced in these instructions, nor for any adverse handling, climatic or environmental conditions that may affect the installation and/or the performance of the flooring products.

The enclosed guidelines and 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 of our control. Users are advised to confirm suitability of conditions and products by performing their own tests and verifications.

**Mondo's standard warranty only extends to the quality and performance of its manufactured flooring products.**

**WARNING: Should you have any concerns or be unsure about installation conditions or procedures, please consult Mondo's Technical Department:**

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