



**DESCRIPTION**

ADHL-HP-POLYURETHANE is a premium, odourless, single component plus cross-linker ADHL-waterborne aliphatic polyurethane floor coating. ADHL-HP-POLYURETHANE displays a unique balance of hardness, flexibility, and chemical and abrasion resistance. This aliphatic polyurethane coating provides excellent UV resistance and colour fastness for both interior and exterior applications. For nonslip applications, Anti-Slip Additive is available from ADHESIVESLAB to be mixed in during the application.

**WHERE TO USE**

ADHL-HP-POLYURETHANE is recommended for porches, balconies, decks, basement floors, cafeterias, theatre floors, retail, bars, casinos, warehouse walkways, exterior floor and wall coatings, and etc. For concrete surfaces, it must be used in conjunction with an epoxy primer.

**BENEFITS**

- Odourless, safe and non-toxic
- Contains no volatile solvents, isocyanate or other hazard materials
- Fast drying; allows multiple applications in a single day
- Tough and flexible with excellent impact resistance
- Outstanding UV resistance and colour fastness
- Excellent adhesion to epoxy primers or aged epoxy coatings
- Superior abrasion resistance
- Excellent colour stability and gloss retention
- Non-staining or yellowing
- High strength and elongation
- Resistant to thermal shock and temperature variations
- Highly resistant to gasoline, salts, oil, water, caustic and light chemicals
- Breathable; yields film with good barrier properties
- Offered in white, grey and beige

**HANDLING PROPERTIES @ 23°C (74°F)**

|  |                              |
|--|------------------------------|
| Application Temperature....            | 12°C-30°C (54°F-86°F)        |
| Density (coloured).....                | 1.2 kg/litre (10 lb./US gal) |
| Thin Film Set Time (Re-coat Time)..... | 3 hours                      |
| Foot Traffic .....                     | 6-8 hours                    |
| Full Service .....                     | 7 days                       |

**DATA – Cured Film Tensile**

Cure Properties, 7 days cure @ 23°C (74°F)  
 Tensile Strength.....44.8 MPa (6500 psi) (ASTM D412)  
 Elongation ..... 200% (ASTM D412)  
 Gloss (@60) ..... 10 Sward  
 Hardness..... 200%  
 Pull Out Tensile Adhesion (to epoxy coating)

(ASTM D4541).....6 MPa (870 psi)

Concrete failure

Abrasion Resistance (ASTM D4060) ..... 37 mg loss (Taber Abrasion, CS-17 Wheel, 1000 Cycles)

Impact Resistance..... pass 160 in/lb (ASTM D2794)

All tests are conducted after 7 days cure @ 23°C (74°F)

## **SURFACE PREPARATION**

**Over Epoxy Floors:** The epoxy floor receiving ADHL-HP-POLYURETHANE must be clean, dry and free from contaminants. If the epoxy is aged, light sanding to roughen the surface is important to ensure good adhesion. **Over Concrete Floors:** The substrate must be free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any foreign matter that may interfere with the bonding of the primer to the prepared substrate. Cracks and surface defects should be repaired prior to the application of the primer. All concrete should be grinded or mechanically abraded (25 grit sand paper) or acid-etched to provide a clean tooth for the primer application. Always use an epoxy primer with ADHL-HP-POLYURETHANE over concrete floors.

## **APPLICATION**

It is recommended to apply two coats for most applications. Mix ADHL-HP-POLYURETHANE thoroughly to obtain a uniform colour and to eliminate the possibility of settlement. Pour the working material onto a paint tray and apply using a lint-free 9mm nap roller evenly across the entire floor or wall. Two coats are recommended for optimal performance. Apply the second coat in the same manner as the first. Allow to cure thoroughly overnight for foot traffic. For a non-slip application, it is recommended to use a non-slip additive blended with the epoxy primer or to alternatively broadcast silica sand (31 mesh) onto the epoxy primer.

For additional non-slip, a 50 mesh non-slip additive (available upon request) can be added to the liquid ADHL-HP-POLYURETHANE and mixed before use.

## **LIMITATIONS**

- Do not use a squeegee to apply a waterborne coating
- Not recommended for floors subject to vehicular or heavy duty warehouse traffic
- Not recommended directly over concrete • Not recommended for garage floors
- Not resistant to hot tire pick up
- Avoid puddling or applying the coating in a thick film as it may cause shrinkage, cracking, and poor adhesion
- Clean the area from chemical spillage immediately with water to avoid staining and damaging
- If multiple coats are required, reapply within 24 hours; otherwise, light sanding is required to achieve good inter-coat adhesion

## **COVERAGE**

A two-coat application (over the primer) is required in most applications.

Roller: 7.5 m<sup>2</sup>/L (300ft<sup>2</sup>/U.S. gallon) per coat

Spray: 11.2m<sup>2</sup>/L (450ft<sup>2</sup>/U.S. gallon cut 5% by volume) per coat

**PACKAGING**

3.79 litre (1 U.S. gal) 18.9 litre (5 U.S. gal)  
ADHESIVES LAB (cross-linker) is sold separately  
(optional): 78gm (for 3.79L unit) 386 gm (for 18.9L unit)

**CLEAN UP**

Clean all equipment with water.

**SAFETY PRECAUTIONS**

Consult Material Safety Data Sheet (MSDS) for specific instructions.

**STORAGE**

Protect from freezing. Store under normal heated warehouse conditions.

**WARRANTY**

The recommendations made and the information here in is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Adhesiveslab Products, makes no warranties, expressed or implied, as uses and applications are beyond our control. Adhesiveslab Products. shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the products in his/her own environment to determine the suitability of the products for their intended use, and the user assumes all risk and liability whatsoever in connection therewith.

Adhesiveslab Product's liability, if any, is limited to a refund of the purchased price or replacement of that portion of the merchandise proven to be defective. Adhesiveslab Products shall have no other liability, including liability for incidental, consequential or result- ant damages, however caused, whether due to breach of warranty, negligence, or strict liability.

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