



## HP | HIGH PERFORMANCE

## HP4300

100% Solids Epoxy

### General Description

**HP4300 100% Solids Epoxy** is a two-component, high-build epoxy. It is formulated for use as a one or two coat application on interior concrete floors subjected to heavy traffic and aggressive chemicals. HP4300 is self-leveling and will effectively fill minor defects and cracks to create a smooth finish. This product is intended for use by professional contractors, knowledgeable in the use of these types of coating systems. This is a two-component product with a mix ratio of 2 : 1 for ready mix colours and 1.66 : 1 for the clear. The kit components are already premeasured to the mix ratio. No measuring required. Do not mix partial kits.

- Self-leveling
- Heavy-duty floor coating
- High-build gloss finish
- Ideal for shot-blasted and scarified floors

### Usage

HP4300 100% Solids Epoxy Floor Coating is designed for use on bare or previously coated concrete – interior floor applications only. This product will amber and chalk if exposed to ultraviolet light.

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| Colours         | Clear (00), White (01),<br>Sandstone (52), Silver Gray (70) |
| Colorant System | Do Not Tint                                                 |

### Technical Data (Gloss)

|                                                                                                                                                                                                     |                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Vehicle                                                                                                                                                                                             | Epoxy                                         |
| Volume Solids (mixed)                                                                                                                                                                               | 99 ± 2%                                       |
| Spread Rate Per 3.79 L                                                                                                                                                                              | 9.3 – 13.9 sq. m.<br>(100 – 150 Sq. Ft.)      |
| Recommended Film Thickness                                                                                                                                                                          | Wet/Dry: 10 – 15 mils                         |
| Depending on surface texture and porosity.                                                                                                                                                          |                                               |
| Dry Time @ 25 °C (77 °F) @ 50% RH                                                                                                                                                                   | To Touch: 6 hours<br>To Recoat: 12 – 24 hours |
| <b>SERVICE TIME: Light Industrial Use:</b> 24 hours.<br><b>Moderate to Heavy Industrial Use:</b> 72 hours<br><b>Recoat after 24 hours:</b> Abrade the surface to ensure proper inter-coat adhesion. |                                               |
| Surface Temperature During Application                                                                                                                                                              | Min: 10 °C (50 °F)<br>Max: 37.8 °C (100 °F)   |
| Viscosity                                                                                                                                                                                           | 93 ± 4 KU                                     |
| Flash Point                                                                                                                                                                                         | 93.2 °C (200 °F)<br>(TT-P-141, Method 4293)   |
| Sheen / Gloss                                                                                                                                                                                       | 80+ @ 60°                                     |
| Clean Up Thinner                                                                                                                                                                                    | HP7040<br>Do not thin                         |
| Mixed Ratio (by volume)                                                                                                                                                                             | 2 : 1 (Colours)<br>1.66 : 1 (Clear)           |
| Induction time @ 25 °C (77 °F)                                                                                                                                                                      | NA                                            |
| Pot Life @ 25 °C (77 °F)                                                                                                                                                                            | 30 minutes                                    |
| Weight Per Gallon (mixed)                                                                                                                                                                           | 5.1 (11 lbs.)                                 |
| Storage Temperature                                                                                                                                                                                 | Min: 7.2 °C (45 °F)<br>Max: 35 °C (95 °F)     |
| VOC (Catalyzed)                                                                                                                                                                                     | 26.4 g/L                                      |

### Surface Preparation

Surfaces must be clean, dry and free of all grease, dirt, dust, oil and wax. Clean all surfaces using HP6000 Oil & Grease Emulsifier. Remove all remaining loose paint, rust and mill scale via Hand Tool Cleaning (SSPC-SP 2) or Power Tool cleaning (SSPC-SP 3). Fill holes and cracks and sand smooth. Glossy surfaces must be fully deglossed.

All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or mechanically abrade all slick, glazed concrete or concrete with laitance. For acid etching, follow ASTM D4260 and manufacturer's directions and safety instructions. Follow ASTM D4259 for creating a surface profile by abrasion. Rinse thoroughly and allow to dry. After the concrete floor has been prepared and allowed to dry (measuring 5% or less with a moisture meter), the bare concrete surface should resemble the texture of medium grade sandpaper (80 grit). Apply one coat of HP1550 Concrete and Metal Epoxy Primer or HP1560 Quick Set Epoxy Floor Sealer.

### Application

#### SQUEEGEE APPLICATION:

When using a smooth/notched blade squeegee spread the ribbon of poured material by pulling the squeegee toward the applicator and spread material at a rate not to exceed 13.9 sq. m. (150 sq. ft.) per 3.79 L. Apply as evenly as possible working from left to right then back again. Do not mix less than full batch/container quantities.

#### ROLLER APPLICATION:

Using a quality phenolic core cover, between 9.5 mm – 12.7 mm (3/8" and 1/2") nap size, gently spread the ribbon of poured material by lightly working the material back and forth until even. Avoid overworking material; allow product to flow out and self-level. Spread at a rate not to exceed 13.9 sq. m. (150 sq. ft.) per 3.79 L. Avoid working back into the previously applied epoxy, particularly after ten minutes duration or color variations can occur in the lapped area. Do not mix less than full batch/container quantities. The floor area should be maintained at a minimum surface and ambient air temperature of 10 °C (50 °F) and a maximum of 37.8 °C (100 °F) throughout the entire recommended dry time. Do not apply if surface temperature is within 5 degrees of dewpoint or if condensation or fog is expected before the product is fully dry.

**Not intended for use on vertical surfaces.**

### Compliance & Certifications

|                                                                                       |   |
|---------------------------------------------------------------------------------------|---|
| Eligible for LEED® v4                                                                 | ✓ |
| CDPH Emissions Certified                                                              | ✓ |
| Eligible for CHPS low emitting credit<br>(Collaborative for High Performance Schools) | ✓ |

This product has been approved by CFIA (Canadian Food Inspection Agency) for use in Food Processing Facilities.

### Mixing Instructions

This is a two-component product and is pre-proportioned for error free mixing. Mix "A" & "B" separately.

- 1.) Carefully empty the entire contents of HP4300.90 Part B catalyst into the can of HP4300 Part A component resin. Part A container is short filled to accept entire contents of Part B catalyst.
- 2.) Using a drill mixer at low speed, blend this mixture for three to five minutes until completely blended. Keep the mixing blade turning at a slow speed to minimize whipping air into material. Scrape sides of pail during the mixing process.
- 3.) Do not allow to induct – use immediately after mixing

**Pot Life:** 30 minutes at 25 °C (77 °F)

### Limitations

- The area should be maintained at a minimum surface and ambient air Temperature of 10 °C (50 °F) and a maximum of 37.8 °C (100 °F) throughout the entire recommended dry time.
- Not intended for use on vertical surfaces.
- Interior floor applications only.

### Technical Assistance

Available through your local authorized independent Benjamin Moore retailer.

call 1-866-708-9180  
visit [www.benjaminmoore.ca](http://www.benjaminmoore.ca)

Clean Up

Wash brushes, rollers, and other painting tools with HP7040 immediately after use.

| CHEMICAL RESISTANCE GUIDE (NON-IMMERSION) |           |
|-------------------------------------------|-----------|
| Fresh Water                               | Excellent |
| Salt Water                                | Excellent |
| Acids                                     | Good      |
| Alkalis                                   | Good      |
| Solvents                                  | Excellent |
| Fuel                                      | Good      |
| Acidic Salt Solutions                     | Excellent |
| Alkaline Salt Solutions                   | Excellent |
| Neutral Salt Solutions                    | Excellent |

| TEST DATA                                                   |                               |
|-------------------------------------------------------------|-------------------------------|
| Steam Resistance                                            | Yes                           |
| Dry Heat Resistance                                         | 148.9 °C (300 °F)             |
| Wet Heat Resistance                                         | 65.6 °C (150 °F)              |
| Adhesion (ASTM D3359)                                       | Pass 5B                       |
| Accelerated Weathering (ASTM G53)                           | 500 hours, no change          |
| Abrasion Resistance (ASTM D4060)<br>CS-17 Wheel, 1000g load | 0.06 g loss after 1000 cycles |
| Compression Strength (ASTM C-579)                           | 11,500 psi                    |

| Colors |           |                                           |                              |
|--------|-----------|-------------------------------------------|------------------------------|
| Part A | HP4300.XX | 5 L (1.33 gal) (short-filled 2 gal. can)  | Total Yield<br>7.5 L (2 gal) |
| Part B | HP4300.90 | 2.5 L (85 fl oz) (short-filled 1 gal can) |                              |

| Clear  |           |                                           |                                 |
|--------|-----------|-------------------------------------------|---------------------------------|
| Part A | HP4300.00 | 4.2 L (1.1 gal) (short-filled 2 gal. can) | Total Yield<br>6.7 L (1.76 gal) |
| Part B | HP4300.90 | 2.5 L (85 fl oz) (short-filled 1 gal can) |                                 |

The components are already premeasured to the proper mix ratio.  
Do not mix partial kits.

Environmental Health & Safety Information

Causes severe skin burns and eye damage  
May cause an allergic skin reaction  
May cause cancer  
Suspected of damaging fertility or the unborn child  
May cause respiratory irritation  
Causes damage to organs through prolonged or repeated exposure

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

**Response:** IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. In case of fire: Use CO2, dry chemical, or foam for extinction.

**Storage:** Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

**CAUTION:** All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by logging onto Health Canada @ <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/environmental-contaminants/lead/lead-information-package-some-commonly-asked-questions-about-lead-human-health.html>

FOR PROFESSIONAL USE ONLY  
Refer to Safety Data Sheet for additional health  
and safety information.