



# Rhino Linings®

**PREMIUM PROTECTION**



## Rhino ArmaFloor® 400UHS

Revised Date: 09/01/2020

This TDS Replaces All Previous Versions

**A-SIDE – Resin**

**B-SIDE – Hardener**

### DESCRIPTION

ArmaFloor® 400UHS -16ltr kit is a two part (3:1 mixing ratio by volume) high solids, heavy duty epoxy floor coating. For use over concrete floors and drains where protection from corrosion and chemical attack is required. It is recommended for use in the food, beverage, oil, chemical, automotive, marine, fertiliser manufacturing and warehousing industries. Suitable for all types of vehicular traffic, including forklifts, trucks and trailers.

### FEATURES & BENEFITS

- Provides excellent chemical resistance to a range of dilute acids, alkalis and solvents.
- The treated surface eliminates dusting and easy to clean.
- The finished surface appearance is of an “orange peel” nature.
- The surface is hygienic due to the seamless application and bacterial growth is eliminated due to the ease of cleaning
- Heavy duty, durable coating offering excellent abrasion resistance

### TYPICAL USES

- Excellent durability and aesthetics for floor coatings including:
  - Retail shops and commercial applications
  - Food processing plants
  - Vehicle workshops
  - Construction and mining industry
  - Warehouses
  - Residential garages and workshops
  - Abattoirs
- Creates a durable, seamless flooring system which conforms to any shape and size.
- Only appropriate floor cleaners should be used (contact Rhino Linings Technical Dept. for details).

### NOT RECOMMENDED FOR

- ArmaFloor® 400UHS is not suitable for external use or other areas of high UV exposure.
- Avoid working in conditions that could cause condensation to form on the uncured coating (for example High humidity or when the temperature is close to the dew point) as it can interfere with subsequent inter-coat adhesion. If the surface is affected in this manner, it will require cleaning and a suitable profile prior to recoating.
- For high foot traffic and wet areas, the addition of slip resistant particles and slip testing should be considered.
- Do not apply to concrete less than 28 days old
- Do not apply to concrete less than 10°C and more than 35°C
- Do not apply to substrates with a moisture content higher than 5%
- Should not be used where surface temperatures consistently exceed 50°C
- ArmaFloor 400UHS should not be specified for external or indirect (not screened by glass) sunlight application, or other high areas of high UV exposure.
- Avoid applying in conditions with high humidity.
- **NOTE** – Substrate temperature **must** be 3°C above the dew point prior to application.
- Low temperature & high humidity can cause amine bloom. Contact Rhino Linings Technical Department.
- Tyre staining may occur on the finished coating due to different tyre chemical compounds.

### TYPICAL PHYSICAL PROPERTIES (@25°C/50%RH)

Recommended Film Thickness per coat	150 - 200 microns
Application Rate	3:1 by volume
Application Temperature	10 – 35°C
Work Time (Standard)	30 min @ 25°C
Work Time (Rapid)	30 min @ 15°C
Dry time	≥ 6 hours @ 25°C
Re-coat window after application	Between 12 to 24 hours @ 25°C after which abrasion is required

Cure Time for foot traffic	24 hours @ 25°C
Cure Time for vehicular traffic	Up to 7 days
Clean Up of spills and equipment	Solvent or GP Thinners

## MIXING

Mixing Ratio is by VOLUME (not weight) and should be 3 parts A-Side (Resin) to 1-part B-Side (Hardener). The components should be mechanically mixed at a medium speed allowing for no air entrapment. The sides and bottom of the mixing container should be scraped during mixing. This product is mass dependent and quantities greater than 4 Litres should be mixed with care.

## CHEMICAL RESISTANCE

Contact Rhino Linings technical/sales department for details.

## SURFACE PREP

See Rhino Linings® Application Standards for full surface preparation instructions. Substrate should be clean, dry and free of oils and other contaminants. Rhino™ recommends diamond grinding or shot blasting to create a Concrete Surface Profile (CSP) of between 2 and 4 prior to the application of ArmaFloor 200SC as a prime coat. Old concrete floors previously contaminated with fats and oils should be tested for adhesion before application of epoxy compounds. **Acid or wet etching is not recommended.**

## THICKNESS / COVERAGE

ArmaFloor®400UHS is typically applied in two wet coats @150 (minimum) to 200 micron per coat with a total dry film thickness of 300 to 400 microns, Use ArmaFloor 200SC for primer.

10% ArmaFloor Thinners is recommended as it is a high viscosity product. See Rhino representative for your specific application. Coverage - Approx. 5m<sup>2</sup>/L per coat.

## STORAGE & SHELF LIFE

Components should be stored in sealed containers in a dry area, between 15 and 25°C. Unopened containers have a shelf life of 12 months at 25°C

## COLOUR OPTIONS

Standard Colours are Neutral and Light Gray.  
Colour Packs for tinting neutral AF400UHS (13 available)

## BASE MATERIAL COLOURS

As above

## VOC (VOLATILE ORGANIC COMPOUND)

Low

## SAFETY PRECAUTIONS

**Health Considerations:** For professional use only. Follow cautions and handling guidelines in Rhino Linings Safety Data Sheet. The information herein is believed to be reliable, but unknown risks may be present. All warranties of any kind, express or implied, including warranties of fitness for a particular purpose, are specifically disclaimed.

### **Hazard Statement: A-side Resin B-side Hardener**

H315 Causes skin irritation H290 May be corrosive to metals H317 May cause an allergic skin reaction H302 Harmful if swallowed H319 Causes serious eye irritation H312 Harmful in contact with skin H411 Toxic to aquatic life with long lasting effects H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H332 Harmful if inhaled H336 May cause drowsiness and dizziness. H412 Harmful to aquatic life with long lasting effects

**Precautionary Statement:** Use in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Take off contaminated clothing. Wash contaminated clothing before use. IF ON SKIN: Wash with plenty of water and soap. IF IN **Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and seek medical advice/attention. If skin irritation or rash occurs seek medical advice/attention. Dispose of contents/container in accordance with local regulations.

**For Your Protection:** The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Australasia. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. Because of numerous factors affecting flooring results such as ambient temperature and humidity, substrate temperature and application rate, **Rhino Linings Australasia makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. The liability of Rhino Linings Australasia for any claims arising from or sounding in breach