



Rhino Linings®

PREMIUM PROTECTION



Rhino ArmaFloor® 300

Revised Date: 28/05/2019

This TDS Replaces All Previous Versions

A-SIDE – Resin

B-SIDE – Hardener

DESCRIPTION

ArmaFloor® 300 -8ltr kit is a pigmented, waterborne, two-component (3:1 mix ratio), 50% solids rapid curing, epoxy coating system designed as a durable coating for floors and other applications. High toughness and strength are characteristics of this coating system.

Formulated with low viscosity, this ambient cured Epoxy system is pre-coloured and is ideal for floors where speed of application is an important factor. ArmaFloor® 300 is mix by volume with sufficient pot life to be rolled using standard application equipment.

FEATURES & BENEFITS

- Fast cure allowing rapid turnaround time; under normal conditions, return to service within 24 hours.
- Robust application window with ability to apply at low temperatures and high humidity.
- Excellent abrasion and impact resistance.
- Excellent chemical resistance.
- Bonds to virtually all substrates, including metals, woods, concrete, and fibreglass.
- Low VOC'S environmentally friendly

TYPICAL USES

- Excellent durability and aesthetics for floors as a stand-alone flooring system, mechanical equipment and other coating systems including:
 - Garage floors
 - Laboratories
 - Restaurant floors
 - Airplane hangars
 - Entry and lobby areas
- Creates a durable, seamless lining which conforms to any shape and size.
- Only appropriate floor cleaners should be used (contact Rhino Linings Technical Dept. for details).

NOT RECOMMENDED FOR

- Do not apply to concrete with curing or sealing membranes.
- Do not apply to substrates affected by moisture content in excess of 5%.
- Do not apply to concrete less than 28 days old
- Should not be used where surface temperatures consistently exceed 50°C.
- Do not apply to base concrete less than 10°C or greater than 35°C.
- Should not be specified for external or indirect (screened by glass) sunlight application, or other areas of high UV radiation 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)

Adhesion to Concrete (CSP 2 to 4)	> 1.5MPa
Elongation (%)*	6 to 8%
Taber Abrasion Resistance	120mg (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight
Flash Point	Non-Flammable
Heat Resistance	Up to 115°C dry heat for short periods
Acid resistance	Resistant to splash of diluted acids followed by clean-up
Alkalis resistance	Resistant to splash of most alkalis followed by clean-up
Solvent resistance	Resistant to splash of most solvents followed by clean-up
Tack Free time	1hr - 3hrs
Cure Time	3 to 4 hrs
Work Time	< 45 min
Re-coat Time	Normally 4 to 12 hours @ 20°C.

Maximum recoat time	24 hours after which abrasion is required
Application Temperature	10 to 35°C
Clean up	In water
Volume Solids	50%

MIXING

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. Test for rising damp or back water pressure before application as adhesion failure is likely to occur if this is present. 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® 300 is typically applied in two wet coats @100 to150 micron per coat with a total dry film thickness of 125 micron. Coverage is approximately 1 Litre =5sqm per coat See Rhino representative for your specific application.
Coverage – Approximately 6m2/L per coat

STORAGE & SHELF LIFE

Components should be stored in sealed containers at 15°C to 30°C in a dry area off the floor.

A-Side: 12 months, unopened, stored properly

B-Side: 12 months, unopened, stored properly

COLOUR OPTIONS

Grey & White

BASE MATERIAL COLOURS

Resin – White/Grey

Hardener - Clear

VOC (VOLATILE ORGANIC COMPOUND)

low

SAFETY PRECAUTIONS

Health Considerations: Consult the Rhino Linings Material Safety Data Sheets: The uncured components of ArmaFloor® 300 can cause irritation to the eyes, skin, and mucous membranes and are harmful if swallowed. When handling, avoid contact with eyes and skin (especially open cuts). In case of contact, immediately wash off with plenty of water for at least fifteen (15) minutes. For eyes, obtain medical attention. Always wash hands before eating. Obtain immediate medical attention in case of ingestion.

ArmaFloor® 300 contains some products that may cause allergic skin. When applying ArmaFloor® 300, have adequate fresh air supplied to the area concerned, i.e. the area should be well ventilated. In case of extreme exposure or adverse reaction, remove affected personnel to fresh air immediately and obtain medical help.

Important: Consult the Rhino Linings Material Safety Data Sheets: Read and follow warning labels on all components. **For professional use only.** Follow cautions and handling guidelines in Rhino Linings Technical Reference Manual. 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.

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