

Rhino ArmaFloor 200 SC

Technical Data Sheet

A-Side – Resin, ArmaFloor 200 SC
 B-Side – Hardener, ArmaFloor 200 SC

Issue Date: 2nd June 2011
 Date Revised: 30th May 2016

DESCRIPTION:

ArmaFloor 200 SC is a two-component, solvent free, rapid curing, scratch or Skim Coat epoxy coating system designed as a thin build yet durable coating system for floors and other applications. ArmaFloor 200 SC can also be used as a Self-Levelling or High Build coating system by the addition of Silica sand or Silica Flour. Alternatively, ArmaFloor 200 SC can be used as a primer system for the ArmaFloor 400UHS Epoxy and ArmaFloor 500 polyaspartic flooring range.

Formulated with low viscosity, this ambient cured resin system is clear amber in colour and is ideal for base coating of floor areas where cost of materials and speed of application are important factors. ArmaFloor 200 SC is a 4:1 mix ratio system (by volume) with sufficient pot life (standard is 35mins) to be rolled using standard application equipment. There is a Rapid version (3 hrs cure @ 25°C) and Standard version (8 hrs cure @ 25°C) available in this range.

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.
- Medium VOC's.

APPLICATIONS:

- Excellent durability as a base coat for ArmaFloor 400UHS Epoxy and ArmaFloor 500 polyaspartic floor coatings :
 - Garage floors
 - Laboratories
 - Restaurant floors
 - Airplane hangars
 - Entry and lobby areas
- Creates a durable, seamless lining which conforms to any shape and size, fills holes.
- Only Rhino Linings recommended floor cleaners should be used (contact Rhino Linings Australasia).

CONDITIONS TO AVOID:

- Do not apply to concrete less than 28 days old and having a minimum Comp. strength of 25MPa.
- Do not apply to concrete with curing or sealing membranes.
- Do not apply to base concrete at a temperature less than 12°C.
- Do not apply to substrates affected by moisture content in excess of 5%.
- Should not be used where temperature exceeds 60°C.

TYPICAL PHYSICAL PROPERTIES for Standard version (@24°C):

Adhesion to Concrete	> 1.5MPa
Elongation (%)	8%
Tack Free time	1 hour
Work Time	1 hour
Taber Abrasion Resistance	88-91
- (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight	
Flash Point	Non Flammable
Application Temperature	12 to 36°C
Re-coat Time	16 to 24 hours (Max recoat time 36-48 hrs @ 20°C).
Maximum recoat time	48 hours after which abrasion is required
Heat Resistance	up to 110°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
Clean up	Rhino ArmaFloor Thinner
Volume Solids	100%

MIXING OF ArmaFloor 200 SC:

The system has been colour enhanced for ease of identification of working time which allows easy viewing of any air entrapment and ensures that the hardener has been fully mixed with the Resin. Mixing Ratio is by VOLUME (not weight) and should be 1 part B-Side (Hardener) and 4 parts A-Side (Resin). 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.

SURFACE PREP OF ArmaFloor 200 SC:

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 for creating surface profile. **Acid or wet etching is not recommended.**

THICKNESS:

ArmaFloor 200 SC is typically applied in one scratch or skim coat. Total coating thickness is typically 0.25 to 0.60 mm. ArmaFloor 200 SC can also be used as a high build or self-levelling system by adding silica sand and can fill from 4mm up to 50mm. See Rhino representative for your specific application.

STORAGE & SHELF LIFE:

ArmaFloor 200 SC components should be stored in sealed containers at 16°C to 32°C in a dry area.
A-Side: Resin, Twelve months, unopened, stored properly
B-Side: Hardener, Twelve months, unopened, stored properly

COLOUR OPTIONS:

Colour – Clear Amber when mixed
Optional colours available: none.

SAFETY PRECAUTIONS:

Health Considerations: Consult the Rhino Linings Material Safety Data Sheets.

The uncured components of ArmaFloor 200 SC 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 200 SC contains some products that may cause allergic skin reactions. When applying ArmaFloor 200 SC, 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/s. 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.

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 Corporation. 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. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

©2016 Rhino Linings Australasia Pty Ltd. All rights reserved.



Rhino Linings Australasia Pty Ltd
501-505 Olsen Avenue, Molendinar Qld 4214 Australia
Ph: +61 7 5585 7000 ~ Fax: +61 7 5539 6399

Rhino Linings USA, Inc. ° Rhino Linings of Canada, Inc. ° Rhino Linings Latin America, ° Rhino Linings Europe