

Cool Barrier

Epoxy HYDRODUR V200



**Waterborne Epoxy
Two Comp. Primer**

V 200

www.abolinco.com

HYDRODUR V 200

Epoxy Hydrodur is a two-component, waterbased, epoxy coating system. It has a track record of more than 10 years of successful use as primer for the Cool Barrier Top Coat line of products, as well as other Abolin Co, water based products.

FEATURES & BENEFITS

- Highly effective water/humidity barrier
- Easy application (water based)
- Low-odor, safe and non-flammable
- Suitable for application in closed spaces
- Easy clean-up
- Strong adhesion even on damp or green concrete. Also on iron, galvanized steel, aluminum, glass and wood
- Good mechanical properties and abrasion resistance

HYDRODUR PRIMER V 200

Water based Epoxy Primer for wood, metal and concrete.

DESCRIPTION

HYDRODUR PRIMER V 200 is two component, water based polyamine-epoxy based coat.

USES CONCRETE

- As primer / penetrating sealer on concrete for HYDRODUR 215V floor coating system
- Warehouses and storage facilities
- Car parks and garages
- Poorly ventilated rooms /house cellars
- As water and humidity barrier, primer and sealer for concrete and mineral based building elements

WOOD APPLICATIONS

- as primer & transparent topcoat
- wooden floors /parquets/ of sport halls
- parquet and timbers in apartments

METAL APPLICATIONS

- as anticorrosion primer for Cool Barrier Elastomeric Coating systems

ADVANTAGES

- Excellent primer coat
- Excellent transparency as primer
- Easy to use
- Water based
- Reduced dusting
- Can be applied in poorly ventilated rooms
- Can be applied on concrete substrate

STORAGE AND SHELF LIFE

Stored in the original unopened containers in dry conditions between 5 and 25°C, this product will keep for a minimum of one year from the date of production.

INSTRUCTIONS FOR USE

1. CONCRETE:

Penetrating primer/sealer on concrete

Surface protection

- Concrete substrate must be clean, free from dust, surface water and surface contaminants such as dust, grease or fat, oil stains, oils, asphalt, wax and old paint residuals or other impurities etc.
- All loose materials and surface laitance must be removed.
- For larger areas shot blasting, high-pressure water blasting or scantling is recommended. On small areas needle gunning or bush hammering can be effective.
- Installation shall proceed at a minimum ambient temperature of +15 °C.

Mixing

- Shake component A briefly and mix with component B in a mixing ratio 3:1. Mix with an electric stirrer for at least 3 minutes.
- The mix of A and B is to be thinned by water at the ratio 1:1 to obtain a penetration solution.
- The final mix A+B + water can be applied app. 15 minutes after the mixing of all components.
- After mixing of all components, a completely homogenous consistency is obtained.

Application

- Primer is best applied with a roller or brush to achieve and continuous a even coverage.
- Avoid ponding.

Important notes

- The penetration with the HYDRODUR 200 V may be performed not sooner than 7 days after lying of the concrete.
- Substrate moisture content must be maximum 5% by weight. After 24 hours it is to be coated by 1-2 layers of Cool Barrier Top Coating Systems.
- HYDRODUR 200 V must not be used for painting of surfaces that come in direct contact with Foodstuffs and drinking water, toys for children and furniture used in children's rooms.

DECLARED PERFORMANCE ACCORDING TO 1504-2

Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer: products and systems for the protection and repair of concrete structures – two-component primer.

Essential characteristics

Depth of penetration: ≥ 5 mm

Liquid water permeability: $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$

Reaction to fire:

Hazardous substances: Class F

2. WOOD APPLICATIONS

Primer & transparent topcoat for wooden floors /parquets/ of sport halls, parquet and timbers in apartments.

Surface protection

- The surface to be painted must be clean, the residues of dirt, greasy stains, or polishing paste must be removed by grinding and further removal of grinding dust by sweeping or vacuuming must be done.
- Installation shall proceed at a minimum ambient temperature of +15 °C by system.

Mixing - Primer

- Shake component A briefly and mix with component B in a mix ratio 3:1. Mix with an electric stirrer for at least 2-5 minutes.
- By adding of 30- 50 % of water to the mix of A and B obtain a penetration solution.
- The final mix A+B+water can be applied app. 15 minutes, after the mixing of all components.
- After mixing of all components, a completely homogenous consistency is obtained.

Application

- The product is best applied with a roller, brush or long-hair brush to achieve and continuous an even coverage.
- Apply the first coat as primer, strongly absorbent wood surface require two primers coats.
- As topcoat two coats are normally required.
- Waiting time between coats of minimum 20 hours, and maximum 30 hours.

Important notes

- Before applying other coat it is recommended to slightly grind the upper coat by the glass paper no. 320.
- Clean all tools with water immediately after use. Once cured, HYDRODUR 200V can be only removed mechanically.

TECHNICAL DATA for CONCRETE AND WOOD

Form Component: A Liquid, B Liquid

Color: Transparent to yellowish when applied

Basic parameters: 10°C 20°C 30°C

Potlife 60 50 40 minutes

Walkable 48 24 24 hours

Full-cured 9 7 6 days

Limits on application:

Min. air and substrate temperature: +10°C

Maximum substrate temperature: +30°C

Mix ratio as Primer Comp: A + B: 3 : 1

Mix (A+B) + Water: 100 : 100

Mix ratio as Topcoat Comp A + B: 3 : 1

Mix (A+B) + Water: 100 : 15

Substrate moisture content: max 5% by weight

Consumption 0,150 - 0,200 kg/m² per one coat

(Depending on the porosity and the surface texture of the substrate a second coat maybe necessary).

3. METAL APPLICATIONS

General purpose anticorrosive epoxy in protective coating systems for steel structures in atmospheric exposure.

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Steel: blast cleaned to ISO-Sa2½, blasting profile 40 - 70 µm or power tool cleaned to min. ISO-St3.
- Galvanised steel: sweep blasted or otherwise roughened, (solution of a phosphoric acid), dry and free from salts and other contamination.
- Substrate temperature must be above 10°C and at least 3°C above dew point during application and curing.
- Maximum relative humidity during application and curing is 75%.

INSTRUCTIONS FOR USE

- Mixing ratio by volume: A+B Comp. 3:1
- The temperature of the mixed base and hardener should preferably be above 15°C, otherwise extra water may be required to obtain application viscosity
- Dilution Rate: Mix (A+B) + Water: 100:10
- Too much water results in reduced sag resistance and slower cure
- Water should be always added after the mixing of the two components
- Adequate ventilation must be maintained during application and curing
- Must be protected from freezing at all times during storage and/or transport
- Induction time: None
- Pot life: 3 hours at 10°C

ADDITIONAL NOTE

- Before use mix properly the two components using a stirrer for at least 2 minutes.
 - Allow the mixed product to “calm down” for 5-6 minutes before applying.
- Limits on application:**
- Minimum air and substrate temperature: +10°C
 - Maximum substrate temperature: +30°C.

BASIC DATA at 20°C

Available Colours: Transparent to yellowish

Mass density: 1.00 g/cm³

Volume solids: 53 ± 2%

VOC (supplied): max. 40 g/l (Directive 1999/13/EC)

Overcoating interval: min. 12 hours at +20°C
max. 6 months

Recommended dry film thickness: 50 µm

Minimum consumption rate: 5 m²/l

Touch dry after: 6 - 8 hours

Full cure after: 7 days

Shelf life (cool and dry place): at least 6 months

APPLICATION METHODS and CLEANING

AIRLESS SPRAY

Recommended thinner: tap water

Volume of thinner: 0 - 5%, depending on required thickness and application conditions

Nozzle orifice: approx. 0.48 mm (= 0.019 in)

Nozzle pressure: 15 MPa (= approx. 150 bar; 2130 p.s.i.)

BRUSH/ROLLER

Recommended thinner: tap water

Volume of thinner: 0 - 10%

CLEANING SOLVENT

Recommended solvent: tap water and Acetone:
Pulsator filter and tip filter must be taken out of the equipment and cleaned properly.

GENERAL NOTES

SAFETY PRECAUTIONS

Before any use, please consult the MSDS file of the product for any precaution and/or safety.

Packaging

Pre-proportioned units (A+B) in 20 liter plastic containers

Comp A : 15 lit plastic container

Comp B : 5 lit plastic container

HANDLING PRECAUTIONS

- Avoid contact with the skin, eyes and avoid breathing its vapour.
- Wear protective gloves when mixing or using
- If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly.
- A full material safety data sheet is available from Abolin Co on request.

Notice:

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used.

The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

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