

# Cool Barrier

Epoxy **HYDRODUR**  
**V200 & V 215**



**Waterborne Epoxy  
Two Comp.  
Floor Coating System**

V 200 & V 215

[www.abolinco.com](http://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.

**Consumption:** 0,150 - 0,200 kg/m<sup>2</sup> per one coat  
(Depending on the porosity and the surface texture of the substrate a second coat maybe necessary).

#### 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:  $\geq 5$  mm

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

Reaction to fire:

Hazardous substances: Class F

## HYDRODUR TOP COAT V 215

Coloured Water Based Epoxy Top Coating  
for Concrete

#### DESCRIPTION

HYDRODUR 215 V is high performance, coloured, 2 component, high solids, polyamine cured, high solids, epoxit based protective and decorative coating especially designed for flooring and concrete protection.

#### USES

HYDRODUR 215 V is high performance, coloured coating system for mechanical wear in areas such as:

- Warehouses and storage facilities
- Car parks and garages
- Poorly ventilated rooms /house cellars/  
Showrooms

#### ADVANTAGES

- Easy to use
- Avoid contact with the skin, eyes and avoid breathing its vapour.
- Low odour
- Water based
- Reduced dusting
- Can be applied in poorly ventilated rooms

#### 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.

#### INSTRUCTION FOR USE

##### Surface protection

- Concrete substrate must be clean, dry, 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 lamination must be removed
- Maximum surface moisture content allowed 5%
- 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 +10 °C.
- The substrate should be first coated with the primer HYDRODUR 200 V as recommended. (refer to separate HYDRODUR 200 V

##### Mixing

Mix of Part A and Part B as curing agent in the correct ratio. Do not make up more material than can be easily applied within the potlife. Further water (5 – 8 % by mass) may be added as required to adjust the coating to application viscosity.

Mix ratio Part A: Part B = 15: 5 (by weight).

##### Mixing time

- Prior to mixing, stir part A mechanically to disperse settled pigment and filler proportions, which may settle down during long term storage

- Add part B gradually in part A, under continuously mixing and continue the mixing for 5 minutes more, until a uniform mix has been obtained.
- Over mixing must be avoided to minimize air entrainment.
- Before the application, allow the mixed product to “calm” for 3 minutes.

### Mixing Tools

HYDRODUR 215 V must be mechanically mixed using an electric power stirrer or other suitable equipment.

### Application

- System is best applied with a felt roller, broom or brush to achieve and continuous a smooth coverage
- Depending on the condition of the substrate two to three coats is recommended.
- When using multiple coats, a dry time of 24 hours between coats is required.
- Consistency of HYDRODUR 215 V may be adjusted by the addition of approx. 5-8 % of water before coating, depending on temperature of substrate and used material

### MAINTENANCE OF FLOORING

- For cleaning of floors it is recommended to use a standard 1-3% detergent solution with warm, not hot, water.
- Should you need to use hot water, the flooring system shall be properly cured.
- For highly greasy floors, use solutions containing a detergent with a maximum 2% solution of sodium hypochlorite or soda.
- Should solvents be needed, use white spirit or denaturated alcohol. The use of aromatic and oxygenous solvents incl. acetone, butyl and ethyl acetate is not recommended.
- Avoid the use of special preparations for stone-ware, containing organic acids such as formic acid, acetic acid, etc. in concentrations exceeding 5% for any maintenance work.
- The coatings or poured flooring systems can be dry cleaned within three days after the installation or once the material has cured properly.
- Machine applied coatings or poured flooring systems should be cleaned minimum 10 days after the installation.

### IMPORTANT GENERAL NOTES

- Prior to mixing store product at between 10°C and 20°C in dry conditions
- Before processing the topcoat, make sure you understand the application guidelines, hygiene and safe working practice

### Packaging

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

### 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.

### TECHNICAL DATA

**Colours:** non-standardized coloured shades/white, grey, ochre light, ochre dark, oxide red.

<b>Basic parameters:</b>	10°C	20°C	30°C
Potlife	60	50	40 minutes
Walkable	30	24	20 hours
Full-cured	5	4	3 days

### BASIC DATA at 20°C

Mass density: app 1.30 g/cm<sup>3</sup>

Volume solids: 80 ± 2%

VOC (supplied): max. 90 g/l (Directive 1999/13/EC)

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

**Recommended dry film thickness:** 500 µm

Theoretical consumption rate: 1,5 m<sup>2</sup>/kg

Touch dry after: 24 hours

Full cure after: 7 days

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

### Limits on application

Min. air and substrate temperature: +10°C

Maximum air and substrate temperature: +30°C

Mix ratio Comp A + B: 15 : 5, by weight

Substrate moisture content: max 5% by weight

### **Consumption Rates**

- Primer HYDRODUR 200V 0,1 - 0,2 kg/m<sup>2</sup> per one coat (depending on porosity and surface texture of the substrate manufacturer recommends 1-2 coats)
- Topcoat HYDRODUR 215V 0,500- 0,700 kg/m<sup>2</sup> per one coat (depending on porosity and surface texture of the substrate manufacturer recommends 1-2 coats).

### **IMPORTANT NOTIFICATION**

The information, and, in particular, the recommendations relating to the applications and end-use of Abolin Co products are given in good faith based on Abolin Co current knowledge and experience of the product when properly stored, handled and applied under normal conditions. In practice, the differences in materials and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms and conditions of sales. User should always refer to the most recent issue of the Technical and Application Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL SERVICE FOR FURTHER INFORMATION AND SAFETY HANDLING USE INSTRUCTIONS IN REFERENCE TO MATERIAL'S SAFETY DATA SHEET.

The management system has been certified according to EN ISO 9001