



## **TECHNICAL DATA SHEET**

**PRODUCT: POLYVINE HEAVY DUTY FLOOR VARNISH**

### **PRODUCT DESCRIPTION**

Polyvine H/D Floor Varnish is a white homogeneous liquid, which is composed of a water based dispersion of cross-linking polyurethane acrylic copolymer with surfactants, waxes, and rheology modifying agents.

Polyvine H/D Floor Varnish is ideal for use on: wood, stone, brick, quarry, tiles, slate, and cork tiles, to give a hard clear protective coating with a high degree of chemical and abrasion resistance.

Dries to a satin finish, which is capable of withstanding heavy foot traffic after 16 hours curing (20°C/70°F), in such areas as gymnasiums, dance floors, and public halls.

### **SURFACE PREPARATION**

Ensure the surface to be coated is clean and free from grease, wax or polish. White spirit or sugar soap should be used as cleaning agents. Sugar soap should be rinsed off well with clean water and allowed to dry. If water has been used on bare wood this would raise the grain. The surface then needs to be sanded and vacuumed before coating. Wooden floors should be sanded with an industrial sander to ensure a smooth finish.

Newly painted wood should first be sanded to provide a key. H/D Floor Varnish should not be applied over uncured oil base paint as this may cause discoloration.

Older painted wood, where the paint itself may fail, should be stripped using a hot air gun or a chemical paint stripper, sanded and cleaned prior to coating.

When applied over emulsion/latex paint, it is possible that H/D Floor Varnish can draw certain stains through the paint which were not otherwise be visible. In this case a stain sealer should be used.

### **APPLICATION**

Polyvine H/D Floor Varnish can be applied by brush, spray or roller. Porous surfaces should be primed with H/D Floor Varnish diluted 10% with water, prior to applying a further 2 or 3coats. On wooden floors, light sanding in between coats may be necessary, if there is any raising off the grain. Allow 2 hours in between coats and 16 hours after final coat before full use. Do not use in temperatures below 5 °C / 40° F or in very high humidity. Lower temperatures will slow the final cure time.

## COVERAGE

Approx. 10-20 sq. m per litre. 108-215 sq. ft per US qt. per coat depending upon the porosity of the substrate.

## CLEAN UP

Any equipment used can be cleaned using soap and water before the clear coat dries. Wipe any excess off surfaces with a damp cloth. Any dried deposits will need a paint stripper to remove them.

Resistances to:	Polyvine H/D Floor Varnish (pu/ac)	Brand Leader Clear coat (pu/ac)	Acrylic Clear coat	Spirit Based Clear coat (pu)
Ethanol	5	4+	0	4+
Tea	5	4+	3	4+
Coffee	4	3+	4	3+
Detergent	5	5	1	5
Hot wet pan	5	3	0	5
BHMR. (16hrs)	5	0	1	1
Other Properties				
Non yellowing	5	3	5	3
Hardness	5	5	2	5
Clean up	5	5	5	0
Time to full cure (50% rh. 20 Degrees C)	16hrs	24-48 hrs	5days	2days

0 = poor. 5 = good. BHMR = Black heel mark resistance.

## FILM PROPERTIES

DRY FILM: Satin

DRYING TIME: approx. 30 minutes @ 20degrees C / 70degrees F

CURE TIME: approx. 16 hours @ 20degrees C / 70degrees F

HARDNESS: approx. 150 sec Konig hardness

BHMR: excellent @ 16hours

NON YELLOWING

RESISTANT TO: Water, tea, coffee, alcohol, detergent, wet hot pans, etc.

## PACKAGING

1L, 2L, 4L. US Quart, US gal. Plastic containers.

## **STORAGE**

Store in unopened containers in a cool dry place away from direct sunlight.

## **HEALTH SAFETY AND THE ENVIROMENT**

Non-hazardous. Ensure good ventilation. Keep out of reach of children. Contact with eyes-wash immediately with warm water. Remove excess from tools and mixing vessels before washing in warm soapy water. Do not empty containers into drains or watercourses.

The information supplied herein is accurate to the best of our knowledge. Since conditions and methods are beyond our control, no warranty is expressed or implied. You are advised to assess the suitability of the product on a test area before application

Further information may be obtained from:

**POLYVINE LIMITED**  
Severn Distribution Park  
Sharpness, Berkeley,  
Gloucestershire.  
GL13 9UQ  
United Kingdom

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International +44 845 017 1671  
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Date of issue: October 2009

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

**PRODUCT** **HEAVY DUTY FLOOR VARNISH**

**COMPANY:** **Polyvine Limited**, Severn Distribution Park, Sharpness, Berkeley, Glos. GL13 9UQ UK  
Emergency Telephone 0845 017 1671 International +44 845 017 1671

## 2. COMPOSITION

Chemical characterisation:	Urethane/Acrylic		
CAS No:	Names:	Conc.:	Symbol
872-50-4	N-Mthyl-2-Pyrollidone	>1%	Xi
121-44-8	Triethylamine	>1%	F,C

## 3. HAZARDS IDENTIFICATION

On available data this product has no hazard classification according to 88/379/EEC.

## 4. FIRST AID MEASURES

**GENERAL:** Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek proper medical attention. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air, keep patient warm and at rest if breathing is irregular or stopped, administer artificial respiration. Giving nothing by mouth. If unconscious place in recovery position and seek medical advice.

**EYE CONTACT:** Holding eyelids apart, flush copiously with clean, fresh water for at least 10 minutes and seek medical advice.

**SKIN CONTACT:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleaner.

**DO NOT use solvents or thinners.**

**INGESTION:** If accidentally swallowed obtain medical attention. Keep at rest. DO NOT induce vomiting.

## 5. FIRE-FIGHTING MEASURES

Aqueous dispersions will not burn. Dried films are combustible and may emit noxious fumes. Water, foam, carbon dioxide or dry powder extinguishers are all suitable. Wear breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Spillage should not be washed into any drain. Spillage should be soaked up with an inert absorbent (e.g. sand) for disposal.

## 7. HANDLING AND STORAGE

### HANDLING

This product should be handled in accordance with good safety and hygiene practices. Small levels of volatile organic compounds may accumulate in the headspace of containers, which should be opened in ventilated surroundings.

**STORAGE** Sealed containers should be stored between 5 C and 40C. Bulk tanks should be externally vented.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS

Local exhaust ventilation may be required in circumstances where the product is sprayed, heated or dried.

### PERSONAL PROTECTION

Respiratory	-	Masks, when spraying
Hand	-	Gloves, if risk of skin contact
Eye	-	Goggles, if risk of splashing
Skin	-	Standard industrial overalls if splashing

O.E.L.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	-	Milky liquid
Odour	-	Mild
PH	-	8.0
Boiling point	-	Approx. 100C (as water)
Flammability and Autoignition temp		N/A
Vapour pressure	-	23 mbar as water
Water solubility	-	Fully miscible
Relative density	-	Approx. 1.03 at 20 C (ISO 8962)

## 10. STABILITY AND REACTIVITY

This product is stable under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

**INHALATION** - May be irritating to respiratory system

**INGESTION** - May be harmful if swallowed

**SKIN CONTACT**- may cause skin irritation

**LONG TERM EXPOSURE** - No information available

## 12. ECOLOGICAL INFORMATION

Do not empty into waters and drains.

## 13. DISPOSAL INFORMATION

Product recommendation: Do not allow into drains or watercourses.

Empty containers are to be disposed according to official rules.

Contaminated packaging recommendation: Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to approved recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

## 14. TRANSPORT INFORMATION

This product is not classified hazardous for transportation.

## 15. REGULATORY INFORMATION

EEC Hazard Classification - None

The product contains only substances, which are on the European Inventory of Existing Chemical Substances (EINECS).

## 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is based on data provided by sources considered to be reliable. This data is intended to enable safety assessment to be made and should not be construed as guaranteeing specific properties. Users are recommended to consult technical information sheets for advice on specific applications.

Further information may be obtained from:

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