



VARAFLOOR HP

HIGH PERFORMANCE EPOXY RESIN BASED FLOOR COATING SYSTEM

DESCRIPTION

VARAFLOOR HP is a two component multi application epoxy based flooring system. The standard version is available as a semi glossy impervious finish in a range of colours. The cured film is hard and has excellent adhesion to concrete, sand/cement and granolithic screeds and certain metal surfaces.

VARAFLOOR HP-SF is a solvent free version. This is available in Light Grey colour and other colours on request.

Irrespective of the version, the cured films of **VARAFLOOR HP** are hard and have excellent adhesion to concrete, sand/cement and granolithic screeds and certain metal surfaces. The standard version **VARAFLOOR HP** is available in Brick Red, Oxide Yellow, Phirozi Blue, Light Grey, Apple green, Dark Green, Dark Grey and Clear.

VARAFLOOR HPCLEAR is an unpigmented version.

USES

- ◆ **VARAFLOOR HP** is used in areas where high resistance to chemical attack is required and where it should be hard wearing, easily cleaned attractive floor with good abrasion resistance which makes **VARAFLOOR HP** suitable for both foot and vehicular traffic. Used in production assembly areas, workshop, dairies, soft drinks production and bottling plant, kitchens, car showrooms, carparks, etc. Particularly suited for wet work areas or areas of strong chemical attack e.g. plating shops, chemical process plants, dye works, etc.
- ◆ Certain areas where less shine is required **VARAFLOOR HPMT** is used.
- ◆ **VARAFLOOR HPSF** is used where thickness in the range of 0.5 to 0.8mm is required in two coats.
- ◆ **VARAFLOOR HPCLEAR** is suitable for application as a primer sealer and dust proofer. It can also be used on absorptive surfaces such as marble, absorptive natural stones, terrazo etc. to provide anti-staining properties.
- ◆ Stair platforms, landings and treads without finish covering shall be made "Non-slip" by using 1.2 kg of a fine abrasive aggregate for each m². of area. Special aggregates having Aluminum Oxide contain > 70% can be supplied on request

ADVANTAGES

Hard Wearing: Has a long life with low maintenance costs.

Chemical Resistance : Proven to have excellent resistance to a wide range of industrial chemicals.

Hygienic: Impervious finish provides easily cleaned surface

Attractive: Available In a range of colours to improve work environments.

Water Proofing: Provides a waterproof surface due to impervious nature of the cured coating.

TYPICAL PROPERTIES

The values given below for typical properties are average figures achieved in laboratory tests at 25° C. Actual values obtained on site may show minor variations from those quoted.

PHYSICAL PROPERTIES

VARAFLOOR HP- STANDARD VERSION / MATT / SF & CLEAR

	25° C	
Pot life	4 hrs (1 Hr for SF version)	
Tack Free Time	6-8 hrs	
Time between Coats	6-24 hrs	
Initial Hardness	24 hrs	
Full Cure	7 days	
Below 25° C these times will be increased.		
Specific gravity: (Mixed material)		1.55 for colours.
@ 25° C		1.05 for CLEAR.

CHEMICAL RESISTANCE PROPERTIES

VARAFLOOR HP is resistant to a wide range of chemicals. Specific data is available on request.

MAINTENANCE

Regular cleaning of **VARAFLOOR HP** will considerably extend the life of the floor.

INSTRUCTION FOR USE

Surface Preparation: It is essential that **VARAFLOOR HP** is applied to sound, clean, dry substrates in order to achieve maximum adhesion between the floor coating and substrate.

New Concrete Floors: New floors should normally be at least 28 days old and give a hygrometer reading not exceeding 75% RH when tested in accordance with **BS 8203** Appendix A. Dry removal of laitance by light grit blasting is preferable but where this is not feasible thoroughly treat with **VARACLEAN**, followed by thorough rinsing with water and complete drying. Dust/debris should then be removed by vacuum brush.

Old Concrete Floors: A sound clean substrate is essential to achieve maximum adhesion. Oil and grease penetration should be removed by chemical degreaser followed by light grit blasting or acid etching as for new floor

PRIMING

Very porous surfaces or surfaces which are damp (RH75/85%) should be primed with one coat of **VARAPRIME EP 30**. If the surface is not damp use **VARAPRIME EP 20 S**. If using SF version priming with **VARAPRIME EP 30** is essential. This priming should be allowed to cure overnight. If this is not done, air bubbles released from the base concrete may appear as blisters after application of SF version

Mixing: Before mixing the contents, each can should be thoroughly stirred to disperse any settlement which may have taken place. The entire contents of the hardener can should be poured into the base container and the materials thoroughly mixed for at least 3 minutes. Mechanical mixing using a slow speed (300-500 rpm) drill fitted with a mixing paddle is recommended.

NOTE : During hot weather conditions as a precaution it is recommended:

- ◆ Store material in cold condition prior to use
- ◆ Use at ambient temperature as low as practically possible
- ◆ Use mixed material within half an hour to 45 minutes or use material mixed with 5 to 10% **VARASOLVE EP** to improve pot life (Not recommended for SF version).

Coating: Apply the mixed **VARAFLOOR HP** to the dry, prepared substrate making sure a continuous film is achieved using a standard paint brush or good quality lambswool roller. Tools and equipment should be cleaned with **VARASOLVE EP** immediately after use.

NOTE: In case the substrate is porous, a coat of **PRIMER** is mandatory. If it is not used patchiness with respect to gloss may be observed. If so, an additional coat of **VARAFLOOR HP** should be used.

LIMITATIONS

VARAFLOOR HP should not be applied onto surfaces known to, suffer from rising damp or having a relative humidity greater than 75% as measured in accordance with **BS 8203** Appendix A. In areas of very heavy traffic such as around work benches, drinks machines etc. it is advisable to apply an additional coat of **VARAFLOOR HP**.

VARAFLOOR HP should not be applied to Asphalt or PVC.

VARAFLOOR HP should not be installed at temperatures below 5° C

Storage : Shelf life of at least 12 months if stored between 5° C and 35° C.

PACKAGING AND COVERAGE

Coverage per pack is approximate depending upon the nature of the substrate. Two coat application is normally necessary and recommended.

VARAFLOOR HP :

6.0 kg pack – coverage 30m² per coat

VARAFLOOR HP– CLEAR :

4 litre pack - coverage 40m² per coat.

VARAFLOOR HP– SF :

6 kg pack - coverage 25m² at 0.5mm WFT.

VARAPRIME EP 30 :

1 kg pack - coverage 4 to 6m² per coat.

VARAPRIME EP-20 S :

4 LTR pack – coverage per pack 40m²

HEALTH AND SAFETY

VARAFLOOR HP, VARAPRIME EP 30 VARASOLVE EP should not come in contact with skin and eyes or be swallowed. Avoid inhalation of solvent vapours. Some people are sensitive to epoxy resins, hardeners and solvents. Gloves, goggles and barrier cream should therefore be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus is recommended. If mixed resin comes in contact with skin it must be removed before it hardens with a resin removing cream or with soap and water. **DO NOT USE SOLVENT.** Contamination of skin with any of the above component products should be removed immediately with soap and water. Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - **DO NOT INDUCE VOMITING.**