

Ozone Epoflow

High chemical and abrasion resistant self leveling epoxy flooring

Description A high build solvent free, chemically resistant flooring, available in either clear or an attractive range of colours, designed to seal, dust proof and protect concrete floors and other surfaces against the ingress of dirt, oil, grease and a wide variety of chemicals.

Uses The low odour and absence of solvent makes Ozone Epoflow ideal for use in laboratories breweries, bakeries, storage yard, pharmaceuticals, public areas and food preparation areas, where non tainting is essential. Ozone Epoflow may also be used as a final top layer on resin based screeds where cleanliness is important or where particularly wet conditions are encountered.

Advantages Ozone Epoflow is used to provide a protective layer to industrial & warehouse floors subject to heavy traffic, an oil resistant layer for bunded areas & other industries requiring high hygiene standards.

- Improves working environment.
- Suitable for use in areas where solvents are undesirable.
- Hardwearing, durable and long lasting.
- Easily and quickly applied by unskilled labour.
- Easily cleaned hence reducing maintenance costs.
- High abrasion resistant and toughness.
- High mechanical strength .
- Good chemical resistance.
- The cured material produces a dense, color full, glossy surface.
- Excellent flow properties.

Chemical Resistance Performance of Ozone Epoflow tested by immersion at 20°C against a range of aggressive chemicals.

Acids

Hydrochloric Acid (Conc.)	Fair	Nitric Acid 25%	Good
Sulphuric Acid 50%	Good	Lactic Acid 10%	Good
Acetic Acid 10%	Fair	Citric Acid 20%	Good

Alkalines

Sodium Hydroxide 50%	Good	Ammonia 10%	Good
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Solvents

White Spirit	Good	Methylated Spirit	Good
Xylene	Good	Butanol	Good

Oils

Lubricating Oil	Good	Petrol	Good
Skydrol	Good		

Aqueous Solutions

Sodium Hypochlorite (Bleach)	Good	Sugar Solution (Saturated)	Good
Salt (Sodium Chloride Saturated)	Good	Ammonium Sulphate (10%)	Good

It should be noted that the ability of Ozone Epoflow to resist attack is dependent on the temperature and concentration of the chemicals. If in doubt contact Ozone technical department.

Properties

	@20°C
Pot life :	40 mins
Cure time :	18 hours
Light traffic use after :	24 hours
Full traffic use after :	48 hours
Resistance to chemical spillage :	7 days
Compressive strength :	85 N/mm ²
Flexural strength :	30 N/mm ²
Tensile strength :	20 N/mm ²
Water absorption : (ASTM C 413:1996)	0.06%
Shore D Hardness :(ASTM D 2240 : 1996)	85
Film Thickness:	1-4mm(For higher thickness consult with technical department)

Packaging 10kg,15kg and 20kg units

Storage Store in dry and cool place below 35°C. Protect from direct sunlight.

Shelf life 12 months if store properly in original unopened packaging.

Surface preparation:

The surface to be treated should be dry, sound and free from loose materials. New concrete should be at least 28 days cured and have a moisture content of less than 5%. Damaged or worn areas should be repaired using Ozone Epo FairCrete. Any laitance should be removed by physical methods or by acid etching. If the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of Ozone Epoflow be applied to assess its suitability. On highly polished/power floated floors, mechanical preparation or acid etching will be necessary.

Priming:

Concrete should be primed with Ozone Epoprime. Ozone Epoprime should be mixed in the proportions supplied. Add the entire contents of the hardener can to the base can. When thoroughly mixed, preferably using a slow speed drill and paddle, the primer should be applied in a thin continuous film, using rollers or stiff brushes. Work the primer well into the surface of the concrete taking care to avoid ponding or over application. The primer should be left to achieve a tack-free condition before applying the top coat. A second coat of primer may be required if the substrate is excessively porous.

Mixing:

The base and hardener components of Ozone Epoflow should be thoroughly stirred before the two are mixed together. The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly at least 3 minutes. Pour the mixed material into a suitable 30 ltr vessel. With the mixer still running, slowly add the aggregate and mixed for 2 minutes or until the mixture is smooth and free of lumps. Always keep the mixing time the same for all batches, to ensure uniform color when the product is applied.

Application:

Pour the mixed material onto the primed and sealed surface, and spread to the required thickness using a pin screed, notched trowel or steel float. As soon as the material has been spread to the required level, the applied material should be rolled with a spiked roller to release entrapped air and remove trowel marks. Rolling should be continued until all air is released and uniform color is obtained. The operator should always wear spiked shoes when using the spiked roller so that he can walk on in the wet material. Rolling should cease when Ozone Epoflow begins to gel.

Cleaning & disposal

Ozone Epoflow should be removed from tools and equipment with Ozone Solvent after use. Hardened material can only be removed mechanically. Do not dispose off into water or soil but according to local regulations.

Health & Safety

Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves, and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

Warranty: We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification. Ozone products are guaranteed against defective materials and manufacturing fault, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control. As all Ozone technical data sheets are updated on a regular basis, it is the users responsibility to obtain the most recent datasheet.