TECHNICAL DATASHEET

EP40

Epoxy floor coating

EP40 Epoxy Floor Coating System is a water based, easy to apply system which consists of the EP40 Epoxy Floor Primer and the EP40 Epoxy Finish Coat in grey or clear.

EP40 Epoxy Floor Primer is designed to soak into the substrate, block pores, improve adhesion and ensure an even, high quality finish.

After the final application of EP40 Epoxy Finish Coat, floors become easier to clean with a hard wearing, dustfree, waterproof, impervious finish and are substantially more resistant to damage by chemicals, fuels and lubricants.

ADVANTAGES

- Easy to apply.
- Excellent adhesion to concrete.
- Provides attractive, dust free finish.
- Substantially more resistance to chemicals, fuels and lubricants.
- Can be used internally and (externally if covered).
- Ideal for areas with high foot traffic.
- Can be applied to green concrete after 7 days.
- Floor becomes easier to clean with impervious finish.

TYPICAL USES

Over concrete floors in a variety of commercial and industrial environments, such as: Industrial plants, Commercial and retail stores, Warehouses, Hospitals, Showrooms, Garages, Gymnasiums, Industrial food preparation areas

SUBSTRATE PREPARATION

All substrates should be dry, clean and free from laitance, oil, grease and other contaminants. Ideally, concrete surfaces should be vacuum shotblasted or mechanically abraded (grinding) to both clean and open the suface, providing a good mechanical key.

Please note: Following sufficient substrate preparation, EP40 Epoxy Floor Primer should always be applied prior to the application of either the grey or clear finish coat.

Substrate humidity should be ≤ 80% before application commences. The concrete subbase must be ≥ 25 N/mm² as per BS 8204-6.

The subbase must be level and have no more than 2 mm undulations. If floor unevenness is significant a polymer modified C35 screed can be used to level. Contact the Wykamol Technical Department for more information.

MIXING

EP40 Epoxy Floor Primer and Finish Coat are both made by combining two components; part A and part B. The part A container is large enough to act as a mixing vessel when combining part A and part B.

By hand, thoroughly mix both part A and part B in their own vessels before combining. Add the entire contents of part B to the entire contents of the part A vessel and mix thoroughly.

Ideally, use a mechanical mixer under low shear to combine, ensuring minimal air entrapment. Do not allow mixture to sit for any considerable amount of time before applying, as it will begin to harden.

APPLICATION

EP40 Epoxy Floor Primer:

1. Using a stiff brush or roller, work the product into the substrate, ensuring all areas are completely covered.
2. Allow to cure for at least 12 hours prior to applying a EP40 Epoxy Finish Coat. If atmospheric or substrate temperatures are below 20°C, allow for a longer initial curing time. Product should be just tack free.
3. Do not allow Primer to fully cure - do not allow curing time to exceed 26 hours before applying a 2nd coat of Primer or Finish Coat.

EP40 Epoxy Finish Coat:

1. When using EP40 Epoxy Finish Coat in clear, perform a small test application in an inconspicuous area, to ensure the finish is as desired.
2. One coat of EP40 Epoxy Finish Coat in clear or grey can be applied with a brush or roller, aiming for a continuous coating.
3. Spread the product as thinly as possible while achieveing maximum coverage. Ensure no pooling or excess product remains.
4. Only 1 application of EP40 Epoxy Finish Coat is necessary for areas which will experience light traffic, such as school corridors. 2 coats should be applied in areas of medium traffic, such as warehouses.

Achieving Slip Resistance:

1. Slip resistance can be improved by scattering anti-slip aggregates onto the EP40 Epoxy Finish Coat, whilst still wet, and back rolling at a rate of 75 g/m². Following intial cure (16 - 24 hours), apply a second coat of EP40 Epoxy Finish Coat to secure the aggregates.

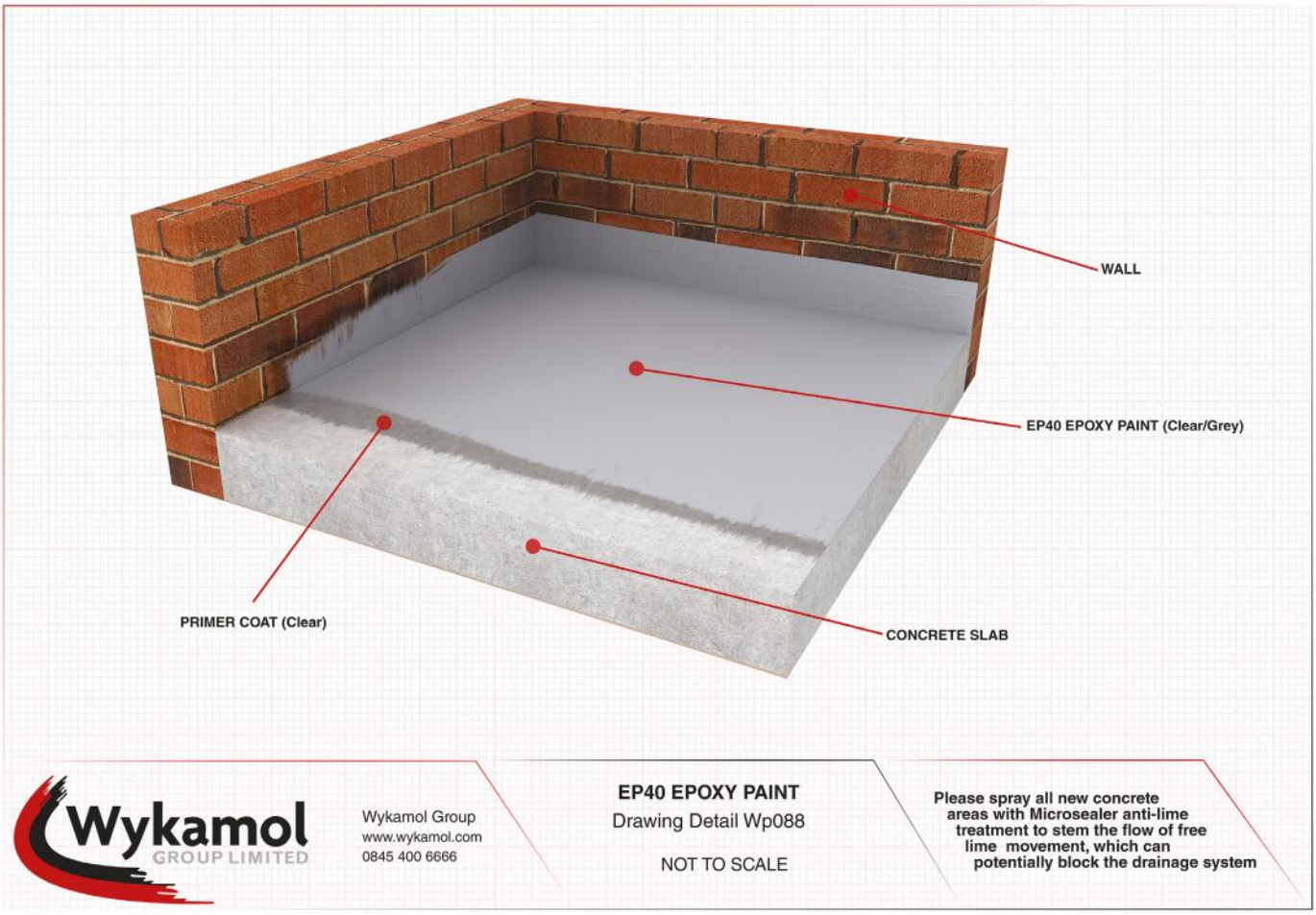
PROPERTIES

Technical	Data Primer	Finish Coat
Colour*	Clear	Grey or Clear
Pot life	45 mins - 1.5 hours	45 mins - 1.5 hours
Recoat time (cure at20°C)**	12 - 26 hours (or when just tack free)	16 - 24 hours (or when just tack free)
Initial cure time (at 20°C) - light traffic**	-	24 - 48 hours after final application
Initial cure time (at 20°C) - medium traffic**	-	72 hours after final application
Full chemical cure (at 20°C)**	7 - 14 days	7 - 14 days

*Colour may vary by batch.

**Tested in stringent laboratory conditions or values determined by BS 8204-6. Conditions on-site will vary and may impact curing times.

EP40 EPOXY FLOOR COATING



CONDITIONS & LIMITATIONS

- ONLY apply system at temperatures between 10°C and 30°C. Applying at temperatures under 10°C will significantly inhibit curing.
- DO NOT apply to substrates, or in atmospheric conditions, with > 80% humidity.
- DO NOT use any kind of steam cleaning on the treated surface, even after full cure.
- DO NOT subject NO MORE DAMP EP40 Epoxy Floor Coating System to high levels of UV light, even after full cure.
- DO NOT use on floors experiencing hydrostatic pressure from groundwater.
- EP40 Finish Coat may not provide a clear finish if substrate is damp prior to application

Note: EP40 Epoxy Floor Coating System is not suitable as a continuous waterproof coating for blockwork due to the texture of the substrate. It will, however, provide a wearing surface.

CLEANING EQUIPMENT

All tools should be cleaned immediately after use with warm, soapy water.

PACK SIZE AND COVERAGE

PRODUCT CODE	COLOUR	PACK SIZE	COVERAGE
NMDEPP2.5	Clear Primer	2.5Kg	Up to 20m²*
NMDEP40G2.5	Grey Finish Coat	2.5Kg	Up to 20m²*
NMDEP40C2.5	Clear Finish Coat	2.5Kg	Up to 20m²*
NMDEPP5	Clear Primer	5Kg	Up to 40m²*
NMDEP40G5	Grey Finish Coat	5Kg	Up to 40m²*
NMDEP40C5	Clear Finish Coat	5Kg	Up to 40m²*

TECHNICAL DATASHEET

BRITISH MADE FOR BRITISH TRADE

STORAGE & SHELF LIFE

Store in original, sealed container between temperatures of 5°C and 35°C. Shelf life is 12 months from date of manufacture, when stored correctly.

HEALTH AND SAFETY

For further information and advice please contact the Wykamol Technical Department and consult the safety data sheet, which is available upon request, or can be downloaded from our website. You can also consult BS 8204-6 Types of Synthetic Resin Flooring (Type 2).

Wykamol SUSTAINABLE WATERPROOFING & PRESERVATION

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