

Technical Data Sheet

Emer-Aquashield

Water based epoxy primer / damp-proofing coating

USES

Moisture barrier coatings to restrict passage of dampness through concrete and masonry substrates. Uses include interior faces of walls, floors, basements, tunnels, cellars, retaining walls, lift wells, underground car parks etc.

ADVANTAGES

- Durable - good resistance to abrasion
- Economical - easy to apply
- Water based - low odour
- Good resistance to a wide range of chemicals

DESCRIPTION

Emer-Aquashield is a water dispersed, two-component epoxy resin based coating which is supplied in pre-weighed packs ready for use on-site. When mixed and applied to concrete or masonry surfaces, Emer-Aquashield cures to form a hard, semi matt barrier coating to restrict the ingress of dampness through concrete masonry.

Emer-Aquashield must be applied in a minimum of two coats by brush, spray or lambswool roller to achieve a minimum dry film thickness of 100 microns.

PROPERTIES

The values given below are average figures achieved in laboratory tests. Actual values obtained on-site may show minor variations from those quoted.

PHYSICAL PROPERTIES

Pot life: 1 hour @ 23°C

Time between coats: 2 - 24 hours

Initial hardness: 24 hours

Full cure: 7 days @ 23°C

Colour - mixed product: Concrete Grey

Note: whilst Emer-Aquashield is effective as a barrier against dampness, cured coatings remain breathable and will allow moisture vapour to pass. In more demanding

applications the vandex range of products should be considered.

After one hour the pot life will have expired, although the mixed material may not have noticeably thickened in viscosity. All mixed material which has exceeded the 1 hour pot life must be discarded.

SPECIFICATION CLAUSES

MOISTURE BARRIER

The water barrier coating shall be Emer-Aquashield, a two-component water dispersed epoxy suitable for application by spray, brush or lambswool roller. The coating shall be applied in two coats to achieve a total minimum dry film thickness of 100 microns.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces must be structurally sound, free of paints, grease, oil, form release agents, curing compounds, dust and loose particles etc. Wherever efflorescence is apparent it must be removed with a 5% hydrochloric acid solution.

Allow cleaner to react for 5 min. then rinse off with plenty of fresh water. Surfaces where Emer-Aquashield will be applied are allowed to be damp, however Emer-Aquashield mustn't be applied to surfaces having free water. Very dry, porous surfaces must be dampened with a fine mist of water. Free flowing seepage must first be sealed. Contact Parchem for advice.

APPLICATION

Thoroughly stir each component before mixing. Mix 4 parts of Base with 1 part of Hardener by volume. Allow the mixed product to stand for 10 minutes before use. Emer-Aquashield may be applied by brush, roller or spray as supplied in the can. On dry, porous surfaces the first coat may be thinned with up to 10% fresh, clean water. The product will be touch dry in approximately 30 minutes and may be overcoated after 2 hours drying under normal conditions. This can be assessed at the time of application and is influenced by ambient temperature and type of

surface treated. Emer-Aquashield should always be used as a two-coat application ensuring that the product is worked well into the surface. Only mix as much material as can be used within approximately one hour.

Note: Do not apply while rain threatens, or when temperatures may fall below 10°C during drying period.

MIXING

The individual components of Emer-Aquashield should be thoroughly stirred before the two are mixed together. The entire contents of the base container should be poured into the hardener container and the two materials mixed thoroughly for at least 3 minutes. The use of a heavy duty slow speed drill fitted with a mixing paddle is essential.

COATING

Mixed Emer-Aquashield to be applied to prepared surface using a brush or lambswool roller. Ensure area is completely coated and 'ponding' of material does not occur since water may be trapped within product, thus preventing complete cure. The second coat may be applied as soon as first coat has initially dried (typically 2 hours). Time will be dependent on type of surface and ambient conditions.

Good drying conditions are required to allow complete evaporation of the water as the resin cures. Adequate ventilation and air movement is necessary.

CLEANING

Emer-Aquashield should be removed from tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

LIMITATIONS

Emer-Aquashield is not suitable for use over moving cracks. In the event of structure leaking water through live cracks, contact Parchem for advice on a suitable repair method.

Static cracks must be repaired with a cementitious repair mortar before applying Emer-Aquashield. Contact Parchem for advice on the appropriate repair product.

Emer-Aquashield prevents the ingress of liquid water, however the coating is breathable and will allow the transmission of water vapour which can lead to the presence of mildew in the basement. Do not overcoat with impervious coatings/coverings or timber flooring.

ESTIMATING

SUPPLY

Emer-Aquashield: 2, 4 and 20 litre pack

COVERAGE

Emer-Aquashield:

- first coat: 0.17 - 0.25 litres/m² (4 - 6 m²/litre)
- second coat: 0.13 - 0.17 litres/m² (6 - 7.5 m²/litre)

The coverage figures given are theoretical - due to wastage factors and variety and nature of possible substrates, practical coverage figures will be reduced.

STORAGE / SHELF LIFE

12 months if kept in a dry store (between 10°C and 30°C) in original, unopened packs, away from sources of heat and naked flames. If stored at high temperatures shelf life may be reduced. Emer-Aquashield to be protected from frost.

ADDITIONAL INFORMATION

Parchem provides a range of products including:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.