



Protective & Marine Coatings

EPIDEK™ M689 EPOXY FLOOR SEALER

Revised 06/2016 Issue 13

PRODUCT INFORMATION

PRODUCT DESCRIPTION

A 100% solids two pack epoxy primer/sealer for concrete

RECOMMENDED USE

For application to suitably prepared concrete substrates as a primer/sealer coat

RECOMMENDED APPLICATION METHODS

Roller
Float

Recommended Thinner: No 5

PRODUCT CHARACTERISTICS

Flash Point: Base : 55°C Additive : 55°C

% Solids by Volume: 100% (ASTM-D2697-91)

Pot Life: 20 minutes @ 15°C 15 minutes @ 23°C

Colour Availability: Clear

VOC: Zero

TYPICAL THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
200 microns	200 microns	5m ² /ltr*

* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.

PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Brush	Spray
Dry	200	200
Wet	200	200

AVERAGE DRYING TIMES

	@ 15°C	@ 23°C
To touch:	8 hours	6 hour
To recoat:	8 hours	6 hours
To handle:	16 hours	12 hours

These figures are given as a guide only. Factors such as air movement and humidity must also be considered.

RECOMMENDED TOPCOATS

Macropoxy M630V2
Epidek M153
Macropoxy M262
Epidek M339
Epidek M377
Epidek M689 must be overcoated within 3 days @ 23°C or 4 days @ 15°.
Consult Sherwin-Williams for further information

PACKAGE

A two component material supplied in separate containers to be mixed prior to use

Pack Size: 4.5 litre.

Mixing Ratio: 1.77 parts base to 1 part additive by volume.

Weight: 1.10 kg/litre.

Shelf Life: 2 years from date of manufacture or 'Use By' date where specified.



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SURFACE PREPARATION

Blastrack/scabble all surfaces to remove any laitance or contaminated surface layers to expose fresh, sound and firm concrete.

The underlying concrete core should be tightly bound and dry, remaining surface dust should be removed by brushing or further vacuum cleaning. Fibre filled concrete must be treated specially, please consult Sherwin-Williams.

The moisture content should be checked in at least two places within each section of concrete. The sections will normally be separated by a waterproof membrane. The maximum level acceptable is 7% for the application of M689 Sealercoat.

Where previous coatings have been applied, these must be completely removed prior to application of the M689 based systems. Any areas of floor which are pitted, very rough, or have any large blow holes, should be smoothed off using a 5:1 by weight blend of P515:M689 prior to application of the Epidek M689 Primer. It is recommended that prior to application of Epidek M689 systems contact is made with Sherwin-Williams.

Due to the varying nature of concrete substrates, it is to be advised that a small trial area is prepared of the Epidek M689 system prior to coating the entire floor area.

APPLICATION EQUIPMENT

Float

After mixing, Epidek M689 can be poured onto the floor and spread to the correct film thickness. Application may be by float or roller, or any other methods which will apply the product to the correct film thickness.

APPLICATION CONDITIONS AND OVERCOATING

The material must be applied at temperatures in excess of 10°C. the substrate and ambient air temperature must be in excess of 10°C and the relative humidity should be no more than 85%. Substrate temperature should be at least 3°C above the dew point and always above 0°C.

Application below 10°C is not recommended.

Development of satisfactory physical properties including hardness and abrasion resistance will be obtained within 24-48 hours at a temperature of 10°C. In order to achieve optimum water and chemical resistance, curing temperature needs to be maintained above 10°C during curing. If it is desired to overcoat outside the times stated on the data sheet, please seek advice from Sherwin-Williams.

ADDITIONAL NOTES

Drying times, curing times and pot life should be considered as a guide only.

The curing reaction of epoxies commences immediately the two components are mixed, and since the reaction is dependent on temperature, the curing time and pot life will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature.

Epoxy Coatings - Colour Stability:

Variable colour stability is a feature of epoxy materials which tend to yellow and darken with age whether used on internal or external areas. Therefore any areas touched-up and repaired with the same colour at a later date may be obvious due to this colour change.

When epoxy materials are exposed to ultra-violet light a surface chalking effect will develop. This phenomenon results in loss of gloss and a fine powder coating at the surface which may give rise to colour variation depending on the aspect of the steelwork. This effect in no way detracts from the performance of the system.

Pot Life

The pot lives overleaf are for a full 4.5 ltr unit. By adopting the application method above, pot life can be extended by up to 15 minutes.

Numerical values quoted for physical data may vary slightly from batch to batch.

HEALTH AND SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.