



TECHNICAL DATA SHEET

AMERIN® E-1 RESIN FOR IMPREGNATION OF CONCRETE

Description:

Component A is solvent containing modified epoxy resin
Component B is a highly reactive polyamine

Characteristics:

- excellent penetration to the pores of concrete
- high capillary activity
- excellent mechanical characteristics

Areas of use:

- impregnation of concrete • improving the quality of concrete and seced

Technical data:

Mixing ratio:

AMERIN® E-1 Component A 40 parts by weight (kg)
AMERIN® E-1 Component B 1 parts by weight (kg)

	Component „A”	Component „B”	Mixture
Appearance	colourless, thin liquid	slightly yellowish, clear, transparent liquid	
Density, at 20 C°, g/cm³	0,85-0,88	0,95-0,98	
Flow-out time at 25 C°, DIN2, s	35-50	90-100	40-60

	The mixture
Pot life at 20 C°, min.	> 8
Minimum curing temperature*, C° (both the stand and the air)	+ 10*
Suggested temperature during application oC	+ 15 - + 20
Relative humidity during application, %:	max.85
Overcoating time** at 20 C°, hours	4- 6 (after full volatilizing of solvents)
Resistant to foot traffic at 20 C°, after... hours	24
Full hardening time at 20 C°, days	7

*Mind that curing time significantly extends below 10-12°C!

** The material fully penetrates the concrete therefore the substrate can be overcoated and walked on even sooner



TECHNICAL DATA SHEET

5. Requirements to the substrate:

See Application Instruction of Amerin Products

6. Surface preparation:

See Application Instruction of Amerin Products

7. Mixing of components

See Application Instruction of Amerin Products

8. Application:

Impregnating with AMERIN® E-1 enhances the success of floor laying, life expectancy of floor coatings, and permanent adhesion in case of good quality substrates, even more in case of weak substrates. Therefore, we recommend the use of it even if the coating system is made with solvent free primer e.g. AMERIN® D-2.

The AMERIN® E-1 can be used as a primer too.

Caution! The AMERIN® E-1 contains solvent therefore during and 12 hours after application there should be adequate air ventilation.

After impregnating and priming a solvent-free coating is allowed to be applied only if the solvent in AMERIN® E-1 is evaporated fully (12-24 hours). Otherwise the solvent remaining in the concrete can deteriorate the quality of the coating.

The fire protection regulations regarding materials in the fire hazard class I must be strictly observed during application.

8.1. Impregnation in case of good quality substrate:

Consumption of AMERIN® E-1: approx. 0,3 kg/m²

Application: with Teddy-roller or rubber squeegee.

8.2. Impregnating in case of weak substrates:

The procedure is similar to point no.8.1. The material consumption can be greater, even 1,5-2 kg/ m² depending on the quality of the substrate.

8.3. The use of AMERIN® E-1 alone for priming:

Consumption of AMERIN® E-1: appr. 0,6 kg/m² (case of good substrate)

The procedure is similar to the method stated in point 8.1., but the application of two layers is recommended with "wet on wet" technique.

After the two-layer priming the following member of the intended system can be applied on the next day.

8.4. Overcoating:

After the application of coating no. 8.1, 8.2 or 8.3 the following part of the intended system can be applied on the next day.

Caution! Solvent-free coating can be applied only after the evaporation of solvent in the primer. Otherwise the remaining solvent can deteriorate the quality of coating.

9. Packaging:

In 16,4 kg units (Component A: 16 kg, Component B: 0,4 kg)

Material can be supplied also in other packaging units on request.

10. Storage

12 months for both Component A and B (For information on storage see Application Instruction of Amerin Products)



TECHNICAL DATA SHEET

11. Work and Health Safety:

The cured material is physiologically harmless. Information on components can be found in *Material Safety Data Sheets*.

12. Fire protection classification:

Component A: Class I. (Highly Flammable and Explosive)

Component B: Class III. (Inflammable)

13. Cleaning:

The components and the uncured mixture can be removed with AMERIN® H-1 thinner. The cured material can be removed by mechanical means only.

14. Handling and disposal of waste

The cured material can be disposed of with domestic waste.

Remnants in the can must be handled as dangerous material and as residue of lacquer.

15. Licences and certifications:

CE: 90-07-0201 TSÚS

This technical data sheet has been composed to the best of our technical knowledge, experiences and experiments. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions.

Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.

For more information contact the manufacturer or his representative.

Aug, 2009.

Amerin® E-1 ENG 2