



# TECHNICAL DATA SHEET

## AMERIN® WT-4 WATER BASED FLOORCOATING

### 1. Description:

Component A is a water dispersion of modified epoxy resin

Component B is a modified polyamine with pigments with additives and fillers

### 2. Characteristics:

- it is suitable for making thin floor coatings
- pleasant, semi-glossy appearance
- wide range of colours, 15 standard colours
- it can be applied also on wet and curing concrete (up to 8 % moisture content)
- it can be applied on concrete directly in contact with the ground or on concrete without damp proof membrane without the danger of detachment
- the coating is water-tight but open to vapour diffusion (breathable)
- quick curing and long working time
- excellent application characteristics
- environmentally friendly product, it does not contain any volatile organic compounds
- the components and the mixture can be washed off before hardening
- after curing excellent resistance to water, good general chemical resistance
- resistance to freezing up to - 30 C° and heat resistance up to + 70 C°
- it can be used as a primer diluted with water, it can be diluted with water without limits, recommended dilution: to 1 part component „A” + „B” by weight 0.2-0.5 part water by weight

### 3. Areas of use:

- for making thin coatings exposed to large mechanical and moderate chemical stress
- for industrial and storage halls, premises, workshops, engine-rooms, public areas, commercial areas, corridors, for various branches of trade, industry and service department stores and public buildings, garages, park houses etc.

### 4. Technical data:

#### Mixing ratio:

AMERIN WT-4      Component A 1 parts by weight (kg)

AMERIN WT-4      Component B 5 parts by weight (kg)

	component „A”	component „B”	Mixture
<b>Appearance</b>	slightly yellow, milk-like, transparent liquid	coloured, slightly tixotropix liquid	
<b>Density, at 20 C°, g/cm<sup>3</sup></b>	1,14 - 1,18	1,35-1,55	1,30-1,50
<b>Viscosity at 25 C°, mPas</b>	2500 - 5000	250-500	800-1500



# TECHNICAL DATA SHEET

\* during storage the viscosity increases slightly

	<b>the mixture</b>
Pot life at 20 C°, min	appr. 1
Minimum curing temperature, C°: (of the base and of the airs)	+ 8*
Suggested temperature during application C°	+ 15 - + 20
Relative humidity during application at 20 °C, %	max. 90
Relative humidity during application at 10 °C, %	max.80
Overcoating time at 20 C°, hours	8-24
Resistant to foot traffic at 20 C°, after... hours	12
Coating can be mechanically loaded at 20°C, days	3
Time of full hardening, coating becomes resistant to water and chemicals, at 20°C, days	7

\*Attention! Curing time significantly increases below 10-12°C!

	<b>The hardened material**</b>
Tensile strength, N/mm <sup>2</sup>	min. 10
Compressive strength, N/mm <sup>2</sup>	min. 30
Trouser Tear strength, N/mm	appr. 40
Elongation at break, %:	appr. 40
Shore D hardness	appr. 50-60
Bonding strength to concrete	the concrete tears up
Abrasion-resistance, mg (Taber-Abraser CS 10/1000g/1000 rev	appr. 50
Impression, mm	0,05
Brinell hardness, N/mm <sup>2</sup>	628
Skid-resistance, SRT	75
Vapour diffusion resistance, m <sup>2</sup> s Pa/g	10,3x10 <sup>6</sup>
Water Impermeability (3 atm, 24 hours)	impermeable
Chemical resistance	according to resistance list
Combustibility	on non-combustible substrate hardly combustible
Flame spreading	on non-combustible substrate moderate flame

\*\*Determined after the 7-day full cure time

## Standard range of colours:

cc. RAL 1002, cc. RAL 1014, cc. RAL 3013, cc. RAL 5012, cc. RAL 6002, cc. RAL 6011, cc. RAL 6019, cc. RAL 6021, cc. RAL 7001, cc. RAL 7030, cc. RAL 7032, cc. RAL 7035, cc. RAL 7037, cc. RAL 9016, cc. RAL 9017.



# 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:**

The AMERIN WT-4 like water-based epoxy coatings usually, is suitable for preparing thin coatings only. The application of thicker coatings can result in cracking and/or detachment, therefore this must be avoided. If the surface of concrete must be levelled, solvent-free AMERIN D-2 should be used. Smoothing, surface levelling done with AMERIN D-2 can be overcoated after approx. 24 hours at 20 C° by AMERIN WT-4.

For the application of AMERIN WT-4 we recommend the following versions:

### 8.1 **Coloured concrete dust binding**

AMERIN WT-4 should be applied in two layers on the cleaned concrete surface. The second layer should be applied within 6-24 hours after the first one. The first, priming layer should be applied 20-50 % diluted with water. For the application, short haired, solvent resistant Teddy-roller should be used while on awkward places a paint brush should be used.

Average material consumption:

- for the first layer approx. 0,3 kg/m<sup>2</sup>
- for the second layer: approx. 0,2 kg/m<sup>2</sup>, altogether approx. 0,5 kg/m<sup>2</sup>

As the result of the procedure the concrete becomes dust-free and cleanable, water and oil absorption stops. The surface resistant to foot traffic, rubber wheeled trolley and lighter forklift traffic. The paint has excellent mechanical and abrasion resistance, it produces a semi-gloss, coloured coating with pleasant appearance. The smoothness of concrete does not change because the thickness of coating is minimal due to the penetration of AMERIN WT-4.

### 8.2. slightly anti-skid coating with the thickness of approx. 1,5 mm

On the prepared surface the following coating system is applied:

- impregnating with diluted AMERIN WT-4

Material consumption: approx. 0,2 kg/m<sup>2</sup>

- application of AMERIN WT-4, scattering of sand

Material consumption:

- AMERIN WT-4 approx. 0,2 kg/m<sup>2</sup>
- quartz sand (Ø 0,1-0,5 mm) approx. 1,0 kg/m<sup>2</sup>
- sanding, vacuuming
- application of AMERIN WT-4

Material consumption: approx. 0,4 kg/m<sup>2</sup>



# TECHNICAL DATA SHEET

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## **9. Packaging:**

In 24 kg units (Component A: 4 kg, Component B: 20 kg)

Different from the usual procedure in that less Component A and more Component B is required.

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*)

**Caution!** The material is sensitive to frost!

As during storage of component B sedimentation of pigments and fillers may occur, therefore component B has to be homogenized thoroughly before adding component A by intensive mixing.

## **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:**

Class III. (both components are 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:**

A-96/1999.

**CE min sítés száma: 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.

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AMERIN WT-4 ENG2