



# TECHNICAL DATA SHEET

## AMERIN® UD-4/GL PUR COMPOUND

### 1. Description:

Component A is a solvent-free polyol based resin with additives and fillers.

Component B is a MDI based poly-isocyanate

### 2. Characteristics:

- slightly flexible polyurethane compound, universal type for general use
- versatile application possibilities, all kinds of smooth and skid resistant coatings can be made in various thickness
- excellent flow properties
- excellent abrasion resistance
- good chemical resistance
- excellent wetting of quartz sand
- short term dry heat resistance: - 30 C° - +80 C°, long term resistance up to +50 C°
- short term wet heat resistance: + 50 C°, long term resistance +30 C°
- low cost

### 3. Areas of use:

- as an intermediate layer of floors exposed to large mechanical stress
- for repairing voids in concrete, for crack repair
- as a compound for asphalt

### 4. Technical data:

#### Mixing ratio:

**AMERIN UD-4/GL Component A**  
**AMERIN UD-4/GL Component B**

**9 parts by weight (kg)**  
**1 parts by weight (kg)**

#### Data referring to Component A:

Appearance:	greyish liquid
Density, at 20 C°, g/cm <sup>3</sup> :	2,00-2,20
Viscosity at 25 C°, mPas:	3500-7000

#### Data referring to Component B:

Appearance:	brown coloured, transparent liquid
Density, at 20 C°, g/cm <sup>3</sup> :	1,20-1,25
Viscosity at 25 C°, mPas:	70-110



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## Data referring to the mixture:

Density, at 20 C°, g/cm <sup>3</sup> :	approx. 1,90-2,0
Initial viscosity at 25 C°, mPas:	2000-4000
Gel time, 100 g, at 25 C°, min.	80-140
Pot life at 20 C°, min.	approx. 40
Minimum curing temperature, C°:	+ 5
Suggested condition of application:	
temperature*, C°:	+15-+20
relative humidity, %:	30-50
Permissible max. relative humidity, %:	60
Overcoating time at 20 C°, hours:	12-24
Resistant to foot traffic at 20 C°, after... hours:	24
Resistant to mechanical loading at 20 C°, after... days:	3
Resistant to water and chemicals at 20 C°, after... days:	7

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

## Data referring to fully cured material \*:

Compressive strength, N/mm <sup>2</sup> :	min. 30
Tear-off strength, N/mm <sup>2</sup> :	min. 10
Elongation at break, %:	approx. 40
Trouser Tear strength, N/mm:	approx. 40
Shore D hardness:	approx. 40-44
Tear-off strength, N/mm <sup>2</sup> :	min. 1,5
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 spreading

\*Determined after the 7-day full cure time

## 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:

**Caution!** The AMERIN UD-4/GL is more sensitive to moisture content of the air than epoxy based materials. The moisture content of the air cannot exceed 60 % or coating blistering can take place. Therefore, during application the moisture content of the air should be measured continuously.



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For thinning of AMERIN UD-4/GL, only a AMERIN H-2/PUR thinner should be used. Care should be taken that we do not add H-1/EP thinner because it spoils AMERIN UD-4/GL.

## 8.1. Priming

The AMERIN UD-4/GL should be applied exclusively on properly prepared and primed substrate within the overcoating time given in the primer's material data sheet. Suitable primers: AMERIN UB-1, RA-1. If the employment of AMERIN UD-4/GL must be done after the overcoating time, that is allowed only after thorough sanding and vacuuming of the primer layer.

Other suggested primers are the epoxy based AMERIN D-2 and D-2/GT. In this case the freshly applied material should be scattered with quartz sand (in most cases with Ø 0,1-0,5 or 0,4-0,8 mm fraction) without expectation and in every condition, then apply AMERIN UD-4/F the following day.

Care should be taken to do not overcoat the epoxy primer with the PUR based material too soon, because it can cause non-desired side reactions.

## 8.2. Equalization:

Instructions on soothing can be read in the material data sheets of primers.

Recommended materials for smoothing: AMERIN UD-4/GL filled with quartz sand (in most cases Ø 0,1-0,5 or 0,4-0,8 mm) according to the degree of unevenness.

**Caution!** On an equalized surface it is necessary to do a preliminary closing of pores with thixotropic AMERIN UD-4/GL if you want to produce a self-levelling layer afterwards. This is made by mixing AMERIN UD-4/GL with 2-4 % thickening (thixotropic) agent.

## 8.3. Overcoating:

The AMERIN UD-4/GL topcoat can be applied 24 hours after the priming no. 8.1 or if necessary after the equalization no. 8.2.

## 9. Packaging:

In 25 kg units (Component A: 22,5 kg, Component B: 2,5 kg)

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

## 10. Storage

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

**Caution!** As sedimentation of fillers may occur, Component A has to be mixed thoroughly before adding component B.

## 11. Work and Health Safety:

The cured material is physiologically harmless. Information on components can be found in *Installation Instructions* and *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-2/PUR thinner. The cured material can be removed by mechanical means only.



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## ***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: 90-09-0002 TSÚS**

**A-948/1995.**

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.

AMERIN UD-4GL ENG2

Aug, 2013.