# PRODUCT DATA SHEET

ITEM CODE: SEE DN
ISSUE DATE: 11/02/2026
REVIEW: NO. 6

## UNIBAR FORMULA

### DESCRIPTION OF THE PRODUCT
Two-component, multifunctional resin for consolidation and waterproofing, solvent-free.

### FIELDS OF USE
Used as a primer for systems requiring subsequent application of **UNIBAR SL**, **UNIBAR SCREED**, and **UNIBAR G** on cementitious or screed substates, including those intended for vehicular traffic (cars or forklifts).
It consolidates the substrate both superficially (3-6 mm when applied neat) and in depth (over 6 mm when diluted with denatured ethyl alcohol), while creating an effective vapour barrier prior to application of the resin cycle.

### SURFACE PREPARATION
Thoroughly clean the substrate to remove dust, oils, greases, and all foreign substances.

### RECOMMENDATIONS
Do not add any additives.
Do not use the product if the packaging is damaged.
Do not dilute with water or solvents.

### PRODUCT PREPARATION
Pour Component B into Component A and mix using a low-speed drill or manually until a homogeneous fluid is obtained.

If dilution with ethyl alcohol is required, proceed as follows:

- Pour Component B into Component A and mix using a low-speed drill or manually until a homogeneous fluid is obtained.
- Add 2.25 Liters of denatured ethyl alcohol to the combined A+B mixture (total pack weight: 7.5 kg) and mix slowly until a very fluid consistency is achieved.

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**WARNINGS**

After mixing the components, the **UNIBAR FORMULA + ALCOHOL** mixture must be applied within the specified pot life. If this time is exceeded, the product may undergo an exothermic reaction, generating heat up to +70°C.

Any residual product can be neutralized by pouring water over it and allowing it to harden completely.

The curing process is significantly slowed at substrate temperatures below + 10°C; therefore, the product must not be applied under these conditions.

To avoid adversely affecting workability and curing times, do not leave Components A and B exposed to direct sunlight or stored in overheated environments such as vans or trucks.

When **UNIBAR FORMULA** is used as a vapour barrier, it must be applied to substrates with a residual moisture not exceeding 6% and with counter-pressure moisture not greater than 1 bar.

Except for dilution with denatured ethyl alcohol (when required), the product must not be diluted with water or other solvents. When the product is diluted with alcohol, ensure application is carried out in a well-ventilated environment.

**APPLICATION**

Once mixed, the product can be applied using a brush or roller.
Depending on the intended use, **UNIBAR FORMULA** should be applied as follows:

- Anti-Dust Action for Crumbly Surfaces:
  Apply **UNIBAR FORMULA** in a single coat.

- Surface-Strengthening Impregnating Action:
  Apply **UNIBAR FORMULA** in two coats. The second coat should be applied while the first coat is still wet.

- Waterproofing Treatment for Load-Bearing Layers Without a Vapour Barrier:
  Apply **UNIBAR FORMULA** in two coats. The second coat should be applied only after the first coat has completely hardened.


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- Subsequent Applications:
  Self-levelling compounds and epoxy finishes can be applied as soon as the treated surface is walkable, provided **UNIBAR FORMULA** has not been diluted with alcohol.

- Deep Consolidation Treatment:
  Apply **UNIBAR FORMULA** diluted with alcohol in two or more coats, wet-on-wet, until all surface porosity is fully saturated.

**CONSUMPTION**

- Anti-Dust Treatment:
  apply 150-300 g/m$^2$ in two coats, wet-on-wet

- Surface Consolidating Treatment:
  apply 400-600 g/m$^2$ in two coats, wet-on-wet

- Waterproofing Treatment:
  apply 400-900 g/m$^2$ in two or more coats. Each subsequent coat must be applied only after the previous coat has hardened (approximately 8-12 hours).

- Deep Consolidating Treatment (diluted with alcohol):
  apply 600-1500 g/m$^2$ in two or more coats, wet-on-wet, until the substrate porosity is fully saturated.

**TOOL CLEANING**

Clean the tools with alcohol before the product hardens.

**PACKAGING**

Component A – RESIN: 5 kg
Component B – HARDENING: 2.5 kg

**STORAGE**

The product in its original and undamaged packaging, can be stored for up to 12 months. Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.



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## SAFETY INSTRUCTIONS

### PRECAUTIONS

For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

### DISPOSAL AND ENVIRONMENTAL PRECAUTIONS

Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

## TECHNICAL FEATURES
## (average value)

| FEATURES | COMPONENT A | COMPONENT B |
|---|---|---|
| Appearance | Liquid | Liquid |
| Colour | Clear | Straw Yellow/ Clear |
| Density | 1.14 g/cm$^3$ | 0.97 g/cm$^3$ |
| Viscosity | 800 mPa.s | 100 mPa.s |
| Solid content | 100% | 100% |

## UNIBAR FORMULA - APPLICATION DATA

| FEATURES | RESULTS |
|---|---|
| Mixing Ratio (A+B) | 5 kg +2.5 kg |
| Consistency After Mixing | Liquid |
| Colour After Mixing | Clear Straw Yellow |
| Density After Mixing | 1.1 g/cm$^3$ |
| Brookfield Viscosity | 500 mPa.s |
| Application Temperature Range | +5°C to +30°C |
| Workability Time | 120 min (+10°C)<br>90 min (+20°C)<br>60 min (+30°C) |
| Hardening Time | 8 hours at +30°C<br>12 hours at +20°C |
| Complete Achievement of Final Characteristics | 7 days |



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# PRODUCT DATA SHEET

## UNIBAR FORMULA – APPLICATION DATA (DILUTED WITH ETHANOL)

| FEATURES | RESULTS |
|---|---|
| Mixing Ratio (A+B+Alcohol) | 5 kg +2.5 kg +2.25 L |
| Consistency After Mixing | Liquid/Fluid |
| Colour After Mixing | Clear |
| Density After Mixing | 1.00 g/cm$^3$ |
| Viscosity | 200 mPa.s |
| Application Temperature Range | +5°C to +30°c |
| Workability Time | 90 min (+10°C)<br>60 min (+20°C)<br>30 min (+30°C) |
| Hardening Time | 12-24 hours depending on temperatures |
| Complete Achievement of Final Characteristics | 7 days |

## UNIBAR FORMULA – FINAL PERFORMANCE

| FEATURES | RESULTS |
|---|---|
| Water Resistance | Excellent |
| Oil Resistance (7 days) | Good |
| Solvent Resistance (7 days) | Good |



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