Technical Data Sheet

LOGIC UH

High-Performance Epoxy System for Structural Repair, Strengthening and Protection

Product Identification

Parameter	Description
Product Name	Logic UH
Product Type	Two-component epoxy repair system
Chemical Base	Epoxy resin (Component A) + Amine hardener (Component B)
Mixing Ratio	1:1 (by volume)
Application Method	Manual application (trowel / spatula / brush)
System Type	Surface-applied structural repair material

Product Description

Logic UH is a two-component, solvent-free epoxy system designed for structural repair, strengthening, and protection of concrete and mineral substrates.

After curing, the material forms a dense, high-strength, impermeable polymer matrix with excellent adhesion to concrete, ensuring effective load transfer and long-term durability.

The system is suitable for repairing cracks, voids, joints, and damaged surfaces where structural integrity and resistance to moisture and chemicals are required.

Areas of Application

- Repair of structural cracks and surface defects
- Filling of joints, voids, and cavities
- Strengthening of beams, columns, and slabs
- Concrete surface restoration
- Industrial floors and load-bearing structures
- Foundations and underground elements
- Repair of precast elements

Intended Use (According to EN 1504)

- Structural bonding (EN 1504-4)
- Concrete repair (EN 1504-3)
- Surface protection (EN 1504-2)

Product Characteristics

- High compressive and tensile strength
- Excellent adhesion to concrete and masonry
- Non-shrink system
- High chemical resistance
- Impermeable to water after curing
- Good workability and controlled curing
- Solvent-free formulation

Technical Data

Component A (Resin)

Property	Value
Appearance	Liquid
Color	Light yellow / transparent
Density (20°C)	1.15 g/ml
Viscosity (20°C)	ca. 6500 mPas

Component B (Hardener)

Property	Value
Appearance	Liquid
Color	Light brown
Color	Light brown / clear
Density (20°C)	1.05 g/ml
Viscosity (20°C)	ca. 6500 mPas

Mixed Product

Property	Value
Density (20°C)	1.10 g/ml
Viscosity (20°C)	ca. 6500 mPas
Pot Life (20°C)	30 minutes
Initial Cure Time	4–6 hours
Full Cure Time (12°C)	24 hours

Application Information

Surface Preparation

- Substrate must be clean, sound, and free of contaminants
- Remove dust, oil, grease, and loose particles
- Prepare surface mechanically if required

Mixing

- Mix components A and B in ratio 1:1
- Use mechanical mixer at low speed
- Mix until homogeneous (approx. 3–4 minutes)

Application

- Apply by spatula, trowel, or suitable tool
- Fill cracks, voids, and defects completely
- Ensure full contact with substrate

Cleaning of Tools

- Clean immediately with suitable solvent
- Hardened material can only be removed mechanically

Application Conditions

Property	Value
Ambient Temperature	0 °C to 200 °C
Substrate Temperature	0 °C
Substrate Condition	Dry or slightly damp

Consumption

Consumption depends on surface roughness and depth of repair:

- Approx. 0.5 comp A, 0.5 comp B, 9 kg sand for 10 kg mortar

Chemical Resistance

Resistant to:

- Water and moisture
- Diluted acids and alkalis
- Salts and de-icing agents
- Industrial environments

Safety Information

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Signal Word: Danger

Hazard Statements

- H315 Causes skin irritation
- H317 May cause allergic skin reaction
- H319 Causes serious eye irritation
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

- P280 Wear protective gloves / eye protection
- P273 Avoid release to the environment

Refer to Safety Data Sheet (SDS) for full information.

Packaging

Component	Packaging
Component A	10 kg
Component B	10 kg
Total Set	20 kg

Storage

- Store in original sealed packaging
- Protect from frost and direct sunlight

Shelf Life

- 24 months from date of production

Standards & Approvals

- EN 1504-2
- EN 1504-3
- EN 1504-4

Legal Notice

The information in this Technical Data Sheet is based on laboratory testing and practical experience.
Values may vary depending on application conditions and substrate characteristics.
The user is responsible for verifying suitability for the intended application.

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