

Waterproof

Technical data sheet

1.0 Identification

Waterproof concrete – Ready-Mixed Waterproof Concrete
Uniclass: Pr_20_31_16_68 Proprietary concretes Primary
CAWS: E10/132 Designed concrete

1.1 Product overview

Ready-mixed concrete solution, specially developed for structural waterproofing in civil engineering. It incorporates advanced admixture technology from Sika® to reduce permeability and enhance durability.

Available in three variants:

- **Bronze:** Using concrete pore blocking admixture, available as a liquid or powder. The powder is a combined water-resisting and HRWR/superplasticising admixture, used to enhance the workability and reduce the permeability of concrete.
- **Silver:** Waterproofing integrated into the concrete. Liquid water penetration is stopped by the structure itself and cannot entirely pass through into the structure. The system combines waterproof concrete with Sika Waterbar joint sealing system to provide effective waterproofing at construction and movement joints.
- **Gold:** All the benefits of the Silver offering, plus SikaProof membrane.

1.2 Key benefits

- Integral waterproofing solution
- High range water reduction for higher density, durability and strength performance
- Reduced water penetration under hydrostatic pressure
- Complies with BS 8102, type B integral waterproofing construction
- Quality-assured and sustainable with 100% recyclability
- Available as pumpable or flowing mix

1.3 Applications

Waterproof concrete is ideal for preventing either water ingress or water egress in residential, industrial, and commercial projects.

Suitable for use in:

- Structural waterproofing in civil engineering projects
- Basements
- Lift pits
- Concrete facades
- Residential and industrial buildings such as housing
- Commercial and leisure facilities including swimming pools
- Engineered structures such as retaining walls and tunnel shafts

2.0 Technical Data

2.1 Product overview

Colour: Grey

Finish: Smooth

Shape: Formless

Length / width / height: Bespoke

Warranty description: 15-25 year

2.2 Standards and Accreditations

RMC producer third party accreditation: Currently certified by a body accredited by UKAS (PAS 2080)

Third party accreditation: Proof that the concrete conforms to Quality Scheme for Ready-Mixed Concrete (QSRMC).

Standards: to BS EN 206 and BS 8500, suitable for BS8102

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2.3 Specification data

Compressive Strength, 28 days - BS EN 12390-3:
35 to 60 MPa

Compressive Strength class:
From C28/35 to C50/60 or stronger

Flexural strength, 28 days - BS EN 12390-5:
Specify if required

Density - BS EN 12390-7:
Normal Weight to EN 206 (2000-2600kg/m³)

Workability period: Specified to BS 8500-1

Aggregates nominal size (max): Dmax 10mm or 20mm

Aggregates colour: Specify if required

Aggregates texture: Specify if required

Use of recycled aggregates:
Permitted given absorption <3%

Source of recycled aggregates: BS EN 12620 Compliant

Binder:

Reaction to fire - BS EN 13501-1: Non-combustible

3.0 Sustainability

Contains Red List materials: No

Primary country of material origin: United Kingdom , <10%
Imported by volume

Country of product manufacture: United Kingdom

A1-A3 Production stage: A1-A3 GWP Data provided upon
request

Recyclability As defined in BS EN ISO 14021: 100%
recyclable

Expected Life: To specified BS8500 Design Live

EPD available: Yes, contact
concrete.technical@heidelbergmaterials.com

4.0 Installation procedures

Minimum depth: Project specific, typically >100mm

Maximum depth: na

Follow standard concrete site practice.

Further information

nquiries@uk.heidelbergmaterials.com