

Oxacrete® OULESSE

Mineral binder based
on construction
demolition waste



Product Data Sheet

Quick Overview

Oxacrete® Oulesse is a mineral binder based on milled demolition waste that is used to produce circular and low carbon concrete. The binder is a blend of a cement-free activator and finely milled construction demolition waste.

The Oxacrete® Oulesse binder has hydraulic properties, provides a strength development similar to conventional cementitious binder systems and allows the reuse of recycled concrete aggregates.

Product Description

Applications

The Oxacrete® Oulesse binder can be used for the following applications:

- Lean concrete
- Screeds and Terrazzo flooring
- Pavers and tiles
- Internal load bearing concrete walls and slabs

Characteristics

- Sustainable and resource-saving alternative to cement-based binders
- Re-use of mixed construction demolition waste in a binder
- Favourable processing properties of the cement-free concrete for mixing, transport, pumping and casting
- Non-toxic and non-hazardous according to GHS (Globally Harmonized System). Registered in the Chemicals Ordinance (ChemO) in Switzerland

Concrete Production

Conventional concrete recipes and mixing procedures can be applied to Oxacrete® Oulesse. For more detailed information regarding the mix design and the mixing procedure, contact must be made with our Technical Service Department.

Strength Class

The current state of development does not allow to assign Oxacrete® Oulesse to a strength class according to EN 197-6. Currently, the strength must be determined at concrete scale and compared to the requirements of the desired application. For reference values reached for different applications, contact must be made with our Technical Service Department.

Exposition classes

X0, XF1, XC1 - XC2

Environmental Data¹

For 1 kg of Oxacrete® Oulesse:	Global Warming Potential (GWP)	0.26 kg CO ₂ -eq
	Environmental impact score (UBP)	608 UBP
	Energy demand, grey energy	0.81 kWh oil-eq

¹The Life Cycle Assessment (LCA) was conducted by Intep and encompasses the production including manufacturing, packaging and transportation of the raw materials, processing and packaging of the end product as well as the disposal of the end product in accordance with the rules of the KBOB recommendation. The assessment is based on life cycle inventories from the UVEK Ökobilanzdatenbestand DQRv2:2022 (UVEK database), aligned with the latest KBOB list.

Product Information

Physical properties

Appearance/Colour	Grey powder
Loose bulk density	0.9 ± 0.1 g/cm ³
Specific density	2.79 ± 0.03 g/cm ³
Sieve undersize (125 µm)	> 95 wt. %
Moisture content	< 1 %

General information

Production location	Switzerland
Packaging for small quantities	Bag: 25 kg
Packaging for large quantities	Big Bag and silo
Shelf life	6 months from date of production.
Storage	Store in cool and dry environment. Prevent uptake of humidity.

Health and safety information

Avoid dust formation. Use in places with adequate ventilation. Avoid breathing dust. Use personal protective equipment. Consult the Material Safety Data Sheet (MSDS) for exposure limits. Dispose of contents/container in accordance with local regulations.

Disclaimer

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