



OULESSE

Mineral binder based on construction demolition waste

Oxacrete® Oulesse is a mineral binder based on milled construction demolition waste that is used to produce a cement-free concrete - Cleancrete Oulesse. The binder provides a strength development comparable to conventional cementitious binder systems. Cleancrete Oulesse allows the reuse of recycled aggregates and is water resistant.

Oxacrete® Oulesse

Oxacrete® Oulesse is a mineral-based binder including > 70% milled construction demolition waste. The milled waste materials can consist out of a mix of concrete, tiles, bricks, and gypsum. The binder is classified as non-toxic and non-hazardous according to the Globally Harmonized System (GHS).

Cleancrete Oulesse

Cleancrete Oulesse is a sustainable and resource-saving alternative to cement-based concrete and is capable of meeting standard compressive strength classes up to C20/25. With a high proportion of milled demolition waste in the binder and the option to incorporate recycled aggregates, Cleancrete Oulesse significantly reduces primary resource consumption.

Dosage

250-600 kg Oxacrete® Oulesse / m³ Cleancrete Oulesse (12-30% of the final mass)*

* the optimal dosage of Oxacrete® Oulesse is dependent on the required performance and the aggregate type and its grading.

Cleancrete Oulesse – Properties

Properties	Unit	Value	Norm Reference / Test type
Consistency class	[-]	F2-F4	SN EN 12350-5
Spread flow	[mm]	350-550	SN EN 12350-5
Open time	[h]	0.5	
Density	[kg/m ³]	1900-2170	
Compressive strength	[MPa]	25	SN EN 12390-3

Environmental Data¹

Functional unit: kg of Oxacrete® Oulesse

Properties	Unit	Value
Global Warming Potential (GWP)	[kg CO ₂ -eq]	0.13
Environmental Impact Score	[UBP]	285
Energy demand, grey energy	[kWh oil-eq]	0.65

¹Lifecycle assessment data was calculated as part of the ZeroStrat Project, which was conducted in collaboration with ETH Zurich and commissioned by the Swiss Federal Office of Energy (SFOE).

Application possibilities:

- Internal & external load bearing walls
- Furniture
- Cast blocks
- Tiles
- Screed
- Composite application with wood
- Porous concrete

The product is available:

- In 15 kg bags
- Other delivery options are available too, please contact tech@oxara.ch for more information



Storage:

- Store in a dry area
- Keep away from direct sunlight
- Maintain ambient temperatures (10°C to 30°C / 50°F to 86°F)
- Protect from weather elements

Health and safety information for the handling with Oxacrete® Oulesse binder:

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