

# Oxacrete® NOSSIM

Mineral admixture  
for stabilised poured earth



## Product Data Sheet

### Quick Overview

Oxacrete® Nossim is a blend of mineral salts specifically designed for the production of stabilised poured earth, also called stabilised clay concrete. Oxacrete® Nossim improves the water resistance and the early-age strength of the poured earth. It is a blend of non-toxic mineral powders forming a dispersant and a coagulant.

The dispersant deflocculates and re-arranges the clay particles in the earth to make the material processable, while the coagulant allows the agglomeration of the clayey materials. Oxacrete® Nossim improves the water resistance and increases the early-age strength development of the stabilised poured earth via a pozzolanic process.

## Product Description

### Applications

This admixture can be used to produce stabilised poured earth. In particular its use is recommended for applications requiring a certain water resistance, fast formwork removal or tall cast elements. It can be applied for:

- Internal non-load bearing walls
- Screeds
- Terrazzo flooring
- Composite application with wood

### Characteristics

- Allows the re-use of excavation soil as a stabilised poured earth material
- Provides favourable processing properties of the poured earth similar to conventional concrete for mixing, transport, pumping and casting
- The early age strength development and water resistance increases with the dosage of the additive
- Addition of cement is not required nor advised
- Non-toxic and non-hazardous according to GHS (Globally Harmonized System)
- Registered in the Chemicals Ordinance (ChemO) in Switzerland

### Dosage

Typical dosages are in the range of 5-25% per total dry fine fraction (<0.063 mm), depending on the targeted properties. To ensure full compatibility with the clay and to optimise material performance, contact must be made with our Technical Service Department.

### Mixing

Oxacrete® Nossim is a powder that should be added to the earth during a mixing process. To ensure an optimised mixing process, please contact our Technical Service Department.

### Environmental Data<sup>1</sup>

For 1 kg of Oxacrete® Nossim:

Global Warming Potential (GWP)	1.08 kg CO <sub>2</sub> -eq
Environmental impact score (UBP)	3095 UBP
Energy demand, grey energy	3.38 kWh oil-eq

<sup>1</sup>The Life Cycle Assessment (LCA) 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

<b>Physical properties</b>	Appearance/Colour	White powder
	Bulk density	1.1 ± 0.1 g/cm <sup>3</sup>
	Specific density	2.85 ± 0.03 g/cm <sup>3</sup>
	Sieve undersize (125 µm)	> 90 %
	Moisture content	0.17 ± 0.04 %
<b>General information</b>	Production location	Switzerland
	Packaging	Bag: 25 kg / Big Bag: 1000 kg
	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

The information in this product data sheet has been compiled with the greatest care. However, Oxara accepts no responsibility for any direct or indirect damage that might occur when using the information provided. With each new edition of the product data sheet, the validity of the previous edition expires.