

Geoprime[®] Concrete for Landscaping

Make a Concrete Change
With Geoprime[®]

Geoprime[®] by Betolar offers a sustainable alternative to cement for concrete landscaping products. All while maintaining optimal product performance and quality.

Geoprime is ideal for creating *truly* green spaces. Perfect for high-quality pavers, slabs, kerb stones, and blocks. The shape, size and color of Geoprime precast products can be customized to meet the needs of any landscaping project. Geoprime cement-free concrete products are high quality, durable, low maintenance and have a good chemical resistance.

Made with the green alternative to cement

Equivalent to traditional cement-based precast products, Geoprime is a reliable, safe and sustainable alkali-activated material solution. Offering similar technical properties, strength behavior and workability to cement-based concrete, Geoprime outperforms the traditional Ordinary Portland Cement (OPC) concrete products with a much smaller carbon footprint.

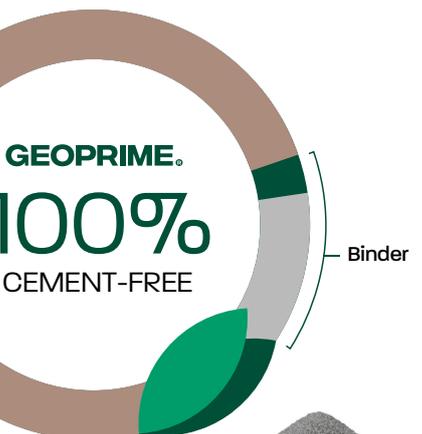
- Up to 80% reduction in CO₂ emissions compared to Portland cement
- 100% cement-free concrete product but 100% as durable
- Comparable technical properties to cement-based concrete products
- Compressive strength ≥ 40 – up to 75 MPa (28d)
- Conforms with EN 1338, EN 1339 and EN 1340 standards
- Scalable solution

About Betolar

Betolar is a pioneering materials technology company focusing on turning industrial side streams into a sustainable business and circular economy. Betolar offers a continuous competitive edge to the construction, cement and concrete industries and leads the way in building a sustainable future for the world.

Geoprime[®] benefits

- Incorporating Geoprime into current production is easy - no need for investments in production line.
- Respond to the demand for green building. Fast to implement: short ramp-up time after piloting.
- Be part of the transformation towards a sustainable tomorrow. Reduce CO₂ emissions and support biodiversity.



Concrete aggregate
Filler, gravel, crushed stone

Geoprime[®] Activator chemicals

Alternative binder e.g., GGBFS

What we offer

- Tailor made optimized mix design
- Geoprime solution license
- Continuous technical support during training, piloting and ramp-up
- Sourcing of locally available side streams and activator chemicals
- Support for sales and marketing activities



Up to

80%

CO₂ savings compared to cement-based concrete products



100%

Cement-free concrete product



100%

Same characteristics as cement-based concrete

Standards and Regulations

Geoprime landscaping products conform with all product standard tests according to EN 1338, EN 1339 and EN 1340

	EN 1338	EN 1339	EN 1340
Flexural strength ≥ 5 MPa (28d)		✓	✓
Tensile strength $\geq 3,6$ MPa (28d)	✓		
Abrasion ≤ 18.000 mm ² / 5.000 mm ²	✓	✓	✓
Freeze and thaw ≤ 1 kg/m ² with cementitious surface	✓	✓	✓
Water absorption $\leq 3 - 6$ %*	✓	✓	✓

*Depending on the Geoprime mix design and conditions of production



Geoprime® concrete is equivalent to traditional cement-based concrete

- Measurements and tolerances
- Shape and dimensions
- Geometrical characteristics
- Efflorescence
- Weight (density)
- Visual aspects, surface and appearance
- Application and installation
- Serviceability
- Recyclability (contains no hazardous substances)

Contact for more info

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