

Geoprime[®] Concrete for Infrastructure

Make a concrete Change
with Geoprime[®]

Concrete Pipe – Drain Well – Drainage – Manhole – Box Culvert – Fence Panel – Noise Barrier – Retaining Wall Element

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

Geoprime cement-free concrete products deliver the strength and durability required for infrastructure solutions. Products are maintenance-free. Geoprime precast products can be used in various infrastructure applications e.g., underground drainage lines (vertical and horizontal) and roadside noise protection walls and fence panels. Geoprime precast products can be manufactured with or without steel reinforcement depending on the requirements.

Made with the green alternative to cement

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

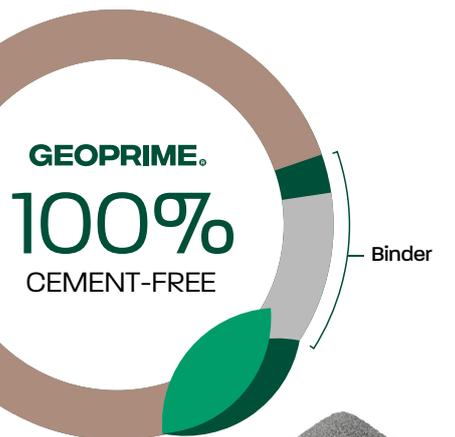
- Up to 80% reduction in CO₂ emissions compared to Portland cement
- 100% cement-free concrete product but 100% as durable
- Comparable technical properties to cement-based concrete products
- Good chemical resistance - sulphate resistant mix design
- Scalable solution
- Conforms with EN 1916 and EN 1917 standards

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 concrete pipes, manholes and inspection chambers conform with all product standard tests according to EN 1916 and EN 1917 standards

	EN 1916	EN 1917
Water absorption ≤ 6%	✓	✓
Watertightness 0,4 bar / 40 s. 1 bar / 15 min.	✓	
Mechanical resistance: Strength class ≥ 20	✓	✓
Crushing strength - Example: 60kN/m (400mm concrete pipe)	✓	✓
Compressive strength 1d ≥ 15 MPa* 28d ≥ C40/50*	✓	
Durability	✓	✓
Geometrical characteristics	✓	✓

*Depending on the Geoprime mix design and conditions of production



Geoprime® concrete is equivalent to traditional cement-based concrete

- Measurements and dimensional tolerances relevant to joints
- Shape and dimensions
- Geometrical characteristics
- Bends, joints and joint seals
- Weight (density)
- Visual aspects and appearance
- Weather and frost resistance
- Durability and strength
- Shrinkage
- Application and installation
- Serviceability
- Recyclability (contains no hazardous substances)

Contact for more info

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