

Product Data Sheet

Cenpave Zero Highly Sustainable Hydraulic Binder



CenPave Zero is a cementitious material, white in colour and will set and gain strength without the need for further additions. It can also be used as an addition to Portland cement.

Cenpave Zero is a fine powder, having hydraulic and pozzolanic properties. Typically has an equivalent average strength to strength class E2 of BS EN 13282-1 2013

Applications

CenPave Zero can be used as a standalone binder and is suited for all semi-dry concrete applications, offering higher replacement levels than fly ash in plant mixed operations. It has enhanced setting times and early strength development compared to other alternatives.

It can be combined with any BS EN 197-1 Type CEM I cement at the mixing plant or mixed in situ for road construction.

Unlike other replacements CenPave Zero is a cementitious binder that achieves strength when used as a standalone product.

It is specifically designed for the requirements of blending at precast concrete factories or as a standalone product in road construction applications.

- Concrete pavers
- Masonry units
- Reconstructed stone
- Decorative paving
- Roller compacted concrete
- Cement bound materials
- Hydraulically bound mixtures
- Utility trench arising material treatments

Benefits

- Produces a brighter sharper precast product
- Can be used at high replacement levels
- Minimises efflorescence
- Reduces pigment usage and cost
- Produces a lower carbon product
- Can help in market competitiveness
- Reduces over all mix costs.
- Hydraulic binder for use in earthworks, road, railway, airport and other types of infrastructure.
- Hydraulic road binder strength Class E2

Product Data

Each batch of product we supply is thoroughly analysed and tested by our advanced monitoring and control system. This enables us to ensure the highest consistency and quality of our products.

Conditions of Use

For best performance, concretes, mortars and grouts containing CenPave Zero must be used correctly according to specification. CenPave Zero is suitable for use with most quality admixtures.

Technical assistance and guidance on admixture choice can be obtained from our technical department.

Trial mixes should be carried out prior to commencement of work to ensure the requirements of the specification are met. Cenin offers state of the art testing facilities to its customers ensuring the correct mix designs are established before production trials commence, giving its customers the benefits of unnecessary down time for production trials.



Availability

Available in bulk, jumbo bags and 25 kg buckets. Our dedicated fleet provides a flexible and highly accurate service.

All Cenin Cement drivers are fully trained and experienced in all aspects of powder handling. Please ensure all discharge zones in your site are accessible at times of delivery.

Our commitment to sustainability is also reflected in our fleet as we ensure the highest efficiency possible in our distribution routes.

Carbon Footprint

The Cenin range is a highly sustainable alternative to Portland cement with excellent cementitious properties, creating up to 95% less embodied CO₂ than standard CEM I Portland cement.

Developed to meet the highest quality and sustainability Standards. CenPave Zero's manufacturing process is powered by renewable energy and by promoting the use of supplementary cementitious materials; it also decreases the need for mineral extraction and reduces landfill and pollution.

Composition	CaO	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO
Portland Cement	65%	20%	5%	2%	1%
CenPave	52%	27%	12%	0.8%	5.5%
GGBS	40%	35%	12%	0.2%	10%
Fly Ash	6%	48%	29%	9%	3%

Technical Support

Cenin Limited has its own independent cement, fly ash and concrete laboratories and is continually monitoring its products and processes to ensure continuity and quality.

Our laboratory services are available to customers for support with product development in a wide range of applications.

Health and Safety

- Wear suitable protective clothing at all times including gloves and eye and face protection.
- Contact with cement, lime or CenPave Zero may cause irritation, dermatitis or burns.
- Contact between cementitious materials and body fluids (e.g. sweat and eye fluids) can also cause irritation. Should these circumstances arise, immediately rinse the affected area(s) with plenty of clean water and seek medical advice.
- Keep out of reach of children.
- For further information please refer to the Health and Safety information sheet.