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Activated Cement Paste

Sustainable cement replacement made from concrete waste.

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What is Activated Cement Paste?

ACP is a reactive SCM produced from concrete waste by everox upcycling technology. This process reactivates the cementitious properties of recycled concrete fines, enabling ACP to replace traditional cement in concrete mixes while maintaining performance and reducing environmental impact.

Specifications

- Particle size: < 0.063 mm
- Medium particle size (D50): 10 µm
- Fineness: 5000 cm²/g ± 15%
- Moisture: < 1.5%
- High cement paste content through quartz removal process
- Enhanced reactivity and durability via activation treatment
- Minimal chloride and sulphate content ensuring long-term durability

Applications

- Ready-mix concrete
- Cement blends
- Precast concrete elements
- Dry mortar blends
- Enables full concrete-to-concrete upcycling

Compliance

- Relevant standards: EN 197-6: 2023 for RCP CEM II/X-F, CEM II/X-M and CEM VI
- KOMO certification according to updated BRL1804 (pending Q2 2026)
- KOMO certification according to updated BRL1802 (pending Q4 2026)

Key features and benefits

SUSTAINABILE
Turns concrete waste into resource, cutting landfill and supporting circular economy.

LOW CARBON FOOTPRINT
Uses carbonation to capture CO_2, cutting emissions vs. traditional cement.

VERSATILE
Compatible with a wide range of concrete mix designs and applications.

COST EFFICIENT
Locally produced, minimizing transportation costs and supporting regional economies.

HIGH PERFOMANCE
Enables cement replacement without compromising concrete strength or durability.

QUALITY CONTROL
Production delivers uniform particle size, high reactivity, and low impurities.

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Recycled Coarse Aggregates

Sustainable replacement of primary gravel made from concrete waste.

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What are Recycled Coarse Aggregates?

RCA is a clean, high-performance aggregate suitable for structural and non-structural concrete applications. It is produced by selectively crushing end-of-life concrete and separating the coarse fraction using everox's advanced processing technologies.

Environmental impact

Our solution enables full concrete-to-concrete upcycling, giving old materials a second life in new construction. By supporting localised production, it also significantly reduces transport-related emissions and lowers the overall environmental impact.

Specifications

- Particle size: 4 – 16 mm
- Bulk density: ~2300 kg/m3
- Water absorption: <4%
- Free from contaminants
- Chloride and sulphate content: minimal

Applications

- Ready-mix concrete
- Precast concrete elements
- Infrastructure and roadworks

Compliance

- Relevant standards: EN 12620:2002 and A1 2008
- BRL 2506-1
- BRL 2506-2

Key features and benefits

SUSTAINABLE
Made from 100% recycled materials, reducing the need for virgin resources and minimizing waste.

VERSATILE
Suitable for a wide range of construction applications, from ready-mix concrete to precast elements.

COST EFFICIENT
Competitive with virgin aggregates, with additional savings from reduced transportation costs.

HIGH PERFORMANCE
Complies with EN 12620:2002 + A1 2008, ensuring suitability for high-performance concrete.

QUALITY CONTROL
Consistent particle size distribution and low impurity levels ensure reliable performance.

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Recycled Fine Aggregates

Sustainable replacement of primary sand made from concrete waste.

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What are Recycled Fine Aggregates?

RFA is a clean fine aggregate free from harmful contaminants. It is produced from concrete waste by everox advanced separation technology. This makes it ideal for use in concrete and mortar applications. The selected separation process leaves the sand almost dry.

Environmental impact

The everox approach reduces the demand for virgin sand, helping to preserve valuable natural resources while protecting ecosystems. At the same time, it diverts waste concrete from landfills, ensuring that materials are kept in use for longer. By enabling localized production, it also reduces transport-related emissions, further lowering the overall environmental impact.

Specifications

- Particle size: 0.25 - 4 mm
- Bulk density: ~2400 kg/m³
- Water absorption: < 6%
- Chloride and sulphate content: minimal
- Free from swelling clay minerals

Applications

- Ready-mix concrete
- Precast concrete elements
- Dry mortar blends

Compliance

- Relevant standards: EN 12620:2002 and A1 2008
- BRL 2506-1
- BRL 2506-2

Key features and benefits

SUSTAINABLE
Made from 100% recycled materials, reducing the need for virgin sand and minimizing waste.

COST COMPETIVE
Competitive with virgin sand, offering economic benefits without compromising quality.

VERSATILE
Suitable for a wide range of applications, from ready-mix concrete to dry mortar.

PURE
Free from harmful particles like swelling clay minerals, ensuring predictable behaviour in concrete.

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Fine Inert Filler

Made from concrete waste.

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What is Fine Inert Filler?

FIF is a quartz-rich material composed of fine particles smaller than 0.25 mm. It is produced from concrete waste and serves as a non-reactive filler that improves concrete density and performance.

Environmental impact

The everox technology enables full concrete-to-concrete upcycling, giving old materials a second life in new construction. By supporting localized production, it also significantly reduces transport-related emissions and lowers the overall environmental impact.

Specifications

- Particle size: <0.25 mm
- Quartz-rich composition
- Minimal chloride and sulphate content
- Low moisture content

Applications

- Ready-mix concrete
- Precast concrete elements
- Glass manufacturing

Compliance

- Relevant standards: EN 12620:2002 and A1 2008
- KOMO certification according to updated BRL1804 (pending Q2 2026)

Key features and benefits

SUSTAINABILE
Made from 100% recycled materials, reducing the need for virgin resources and minimizing waste.

COST COMPETITIVE
Offers economic benefits while supporting sustainable construction practices.

VERSATILE
Suitable for a wide range of applications, from ready-mix concrete to dry mortar.

UNIFORM
Exceptional fineness and consistent particle size ensure predictable behavior in concrete mixes.

PERFORMANCE ENHANCED
Improves concrete density by filling microscopic voids, reducing permeability, and increasing durability.

PURE
Chloride and sulphate contents maintained at minimal levels to prevent corrosion.