



SIKA AT WORK

CONCRETE RECYCLING SOLUTION FOR LAVALLÉE ECO-DISTRICT, CHÂTENAY-MALABRY, FRANCE

CONCRETE PRODUCTION: Sika® ViscoCrete®

SIKACIRCLE SOLUTION FOR CONCRETE RECYCLING



PROJECT DESCRIPTION

The LaVallée eco-district is a flagship low-carbon urban development project located on the former site of the École Centrale. Spanning 20 hectares. The deconstruction and groundwork started in 2020. In 2022 the construction was completed, it has 2,200 residential units, 36,500 m² of office space, 15,000 m² of retail space, a school complex, an urban farm, and public infrastructure.

PROJECT REQUIREMENTS

The project aimed to create a model eco-district promoting sustainability, circular economy, and low-carbon construction. Key challenges included reusing 85,000 m³ of demolition rubble on-site, producing high-quality concrete with recycled aggregates, and achieving technical performance for both structural and aesthetic requirements.

Concrete formulations needed to support 30% and even 100% recycled content while ensuring sufficient rheology, water robustness, and fair-faced concrete quality.

SIKA SOLUTIONS

Sika supported Minier Béton, the concrete producer, with technical expertise and product recommendations during lab testing and on-site production. Solutions included:

- Sika® ViscoCrete® TempoFlow 464:
A new-generation plasticizer/water reducer
- Sika® ViscoCrete®-850 Végétal:
A superplasticizer made from bio-based plant materials

These admixtures ensured long workability (1h30), consistent performance despite variable moisture in recycled aggregates, and high-quality surface finishes—enable the customers to meet the project's ambitious eco-design and durability goals.

PROJECT PARTICIPANTS

Developer:	SEMOP Châtenay-Malabry Parc-Centrale
Promoters:	Eiffage Immobilier Île-de-France, COFFIM, Kaufman & Broad, Icade
Architect:	Agence Leclercq Associés
Landscape Architect:	BASE
Infrastructure Engineer (BET VRD):	OTCI
Sustainability Consultants (AMO Développement Durable):	Even Conseil, Atelier LD, Suez Consulting
Sika organization:	Sika France

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SIKA SERVICES AG
Tueffenwies 16
CH-8048 Zurich
Switzerland

Contact
Concrete
Phone +41 58 436 40 40
www.sika.com

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