

# SELF-COMPACTING CONCRETE

Aesthetic and architectural  
design requirements.



Concrete manufactured with Susterra cement, with a lower carbon footprint, reducing its CO<sub>2</sub> emissions by up to 25% compared to products currently manufactured with type I cement in the same resistance category.

These characteristics give it the capacity to completely gravity-fill formwork moulds.

It is compacted by the action of its own weight, leaving no voids and without the need for vibration or other compaction systems.



## Field of application

Structural works and where the reinforcement density is higher than normal, highly slender elements, civil engineering and building works.

Works whose complexity makes it very difficult to carry out vibration.

Fills formwork with complex shapes, without the need for vibrating.

## Benefits

Easy application, fast execution.

Ability to smoothly and homogeneously fill the entire volume of formwork.

Improved working and cost performance, thanks to its easy installation.

It can be used in formwork with complicated geometries, slender thicknesses, or dense reinforcement.

Compatible with fibre reinforcement or the addition of dyes.

Increased durability and impermeability of the finished product.

Meets aesthetic and architectural design requirements.

Reduces noise emission and vibrations in the environment and for the workers applying on site.

## Application system

- Due to the fluidity of the product, it can be applied by direct pouring, bucketing or pumping.
- No vibration required.
- Requires a robust and dimensioned formwork for the product to be applied.

Self-compacting concrete was used because of the difficulty of vibrating the concrete.

It was easy and quick to apply in a structure with complex shapes and high density of the reinforcements.

Resistance (N/mm <sup>2</sup> )	35/40/45/50/60
Consistency	Self-compacting
Maximum aggregate size	10mm / 20mm
Environments	Adaptable to CodE specifications

