

# CCI NOVACEM

## Pozzolanic additive for Concretes, Mortars, and Coatings

### Description

**CCI Novacem** is a pozzolanic additive for concretes, mortars, and coatings made from Kaolin clay. It has an average particle size approximately 10.0  $\mu\text{m}$ . It boosts exceptional pozzolanic reactivity, contributing to improved strength and durability in concretes, mortars, and coatings.

### Applications

- ✓ Lime bound systems
- ✓ Concrete, mortar, plaster, stucco
- ✓ Cementitious tile adhesives
- ✓ Substitute of fly ash and other fillers
- ✓ Fluxing agent and whitener for ceramic product
- ✓ Geopolymers

### Advantages

- ✓ Very high and fast activity in the lime-binding process
- ✓ Used as substitute for binder results in material savings.
- ✓ Densification of the material structure
- ✓ Increased strength in mineral systems
- ✓ Improves the rheological properties of materials.
- ✓ Low swelling-shrinking behaviour
- ✓ Improves the resistance against sulphate attack

### Physical Properties

Grain size, $\mu\text{m}$	10%	2.37
	50%	6.61
	90%	18.49
The largest particle, $\mu\text{m}$		34.7
Bulk density in $\text{kg/m}^3$ , %		500 $\pm$ 15
Grain density in $\text{kg/m}^3$		2400
Colour		Grey to Buff
Reference of specific surface in $\text{cm}^2/\text{g}$		120
Pozzolanic activity in $\text{mg/g}$		~927

### Chemical Properties

SiO <sub>2</sub>	54.9	ZrO <sub>2</sub>	0.01%
Al <sub>2</sub> O <sub>3</sub>	31.10%	SrO	0.01%
Na <sub>2</sub> O	8.09%	Rb <sub>2</sub> O	76.097 PPM
CaO	2.61%	MnO	55.111 PPM
Fe <sub>2</sub> O <sub>3</sub>	0.90%	ZnO	63.762 PPM
K <sub>2</sub> O	0.682%	Ga <sub>2</sub> O <sub>3</sub>	45.716 PPM
TiO <sub>2</sub>	0.50%	NiO	27.050 PPM
MgO	0.89%	Nb <sub>2</sub> O <sub>5</sub>	21.268 PPM
P <sub>2</sub> O <sub>5</sub>	0.10%		
SO <sub>3</sub>	0.10%		
BaO	0.02%		
WO <sub>3</sub>	0.01%		
PbO	0.01%		

### Packaging

25 kg bags.

### Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C.

### Precautions

- ✓ Store the material at the +5°C to 40°C temperature range in a shaded cool place.
- ✓ Do not keep left over material in open condition.

### Safety

- ✓ Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- ✓ In case eyes or mouth are affected, wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on [www.ccichemicals.in](http://www.ccichemicals.in) or contact us at [info@ccichemicals.in](mailto:info@ccichemicals.in).

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