


Concrete Applications

In a world where climate disasters are becoming more frequent and intense, concrete plays a key role in the transition to more resilient infrastructure, buildings and cities. Some of cement's applications and advantages are:

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THERMAL MASS: Because it insulates and stores heat, it can be used to reduce the energy demand of buildings in cold climates.

VERSATILE: It provides endless possibilities for mixtures and shapes.

INSECT PROOF: It is resistant to insects, which reduces the risk of invisible damage.

NON-FLAMMABLE: It does not burn, thus enabling the construction of fire-resistant structures.

INFRASTRUCTURE: It is used in the construction of sustainability-related projects, such as water and sewage treatment and renewable energy (wind towers and hydroelectric dams) infrastructure.

RECYCLABLE: It is 100% recyclable, thus supporting a circular economy.

WATER PERMEABLE: Concrete paving can incorporate water permeability properties, facilitating the natural drainage process.

CONCRETE ROADS/LOWER VEHICLE EMISSIONS: Concrete roads reduce the volume of fuel used by vehicles in the logistics network, resulting in lower greenhouse gas emissions.

LIGHT REFLECTIVE: Its light-colored surface reflects light, which can reduce the number of streetlights by up to 25%.

FLOOD RESISTANT: It does not expand or deform when wet, making it resilient to flooding and water damage.

DURABILITY: Concrete structures can last 100 years or more and require little maintenance.

RE-CARBONATATION: When in contact with air, it absorbs some of the CO2 emitted during the production process. Recycled concrete has the potential to boost this absorption.

SAFE FOR WATER STORAGE: It is inert, making it safe for storing drinking water.

NO VOC EMISSION: It does not emit volatile organic compounds (VOC) that can harm human health.

AVAILABLE AND AFFORDABLE: It is locally produced, widely available and suitable for construction, in addition to offering a cost-effective life cycle.

HEAT REFLECTIVE: Its light-colored surface reflects heat, reducing energy demand in hot climates.