



# **CWC®SMARTCEM C**

## **Polymer Modified Non-Shrink Admixture For Injection Cement Grouting**

## Description

be impregnated.

#### **Indicative Characteristics**

Free linear Expansion, ASTM C 827	2-4%
Form	Powder
Color	Ashy Yellow
Compatibility	Can be used with all types of Ordinary Portland and blended Cements, including sulphate resistant Cement.
Consistency	<b>CWC®SMARTCEM C</b> is formulated from carefully selected raw material and it is manufactured under control conditions to give a consistent product.
Handling	CWC®SMARTCEM C is formulated from Chemicals which present no fire or health hazards.

## **Domains of Application**

CWC®SMARTCEM C is specially formulated non-shrink CWC®SMARTCEM C is used as an admixture for Injection grouting aid. It is a free flowing powder for addition to neat Grouting to effectively waterproof and stop leaks in cement mixes. It plasticizes the mix, allowing for substantial underground structures, basements, tunnels, lift wells, reduction in water without affecting the fluidity, thus retaining walls, dams, water reservoirs, pressure ducts and improving the strength and impermeability of the grout. other water retaining structures. It is also recommended for During the setting period of the grout, it produces grouting pre-stressed members. machine bases, column controlled expansion to compensate the normal drying bases (Steel and precast concrete) anchor bolts etc. and shrinkage of cement. This ensures complete filling of voids wherever a non-settling, non-bleeding, expanding grout is and prevents formation of porous sections. It also imparts required. CWC®SMARTCEM C can also be used as an surface active properties and controlled volume increase additive to produce flowable Expansion (non shrink) during reaction; thus even the smallest cracks and pores can concrete (with smaller sized graded aggregates are preferable) / mortar.

#### **Method of Application**

#### Mixing

Use mechanical mortar mixers, preferably of the slow speed (250-350 rpm) paddle mixer Hand mixing rarely achieves the desired result. Allow approx 5 minutes for mixing. Thorough mixing is essential for achieving maximum results. Add cement and CWC®SMARTCEM C slowly into recommended amount of clean water in a mixer.

CWC®SMARTCEM C is admixed with neat cement mixes to a suitable consistency and injected under pressure, preferably by a positive displacement pump through nozzles. The surface of the concrete/rock should be properly sealed / patched to prevent the grout from coming out. To get better result CWC®SMARTCEM C should be mixed uniformly with dry cement for concrete and mortar.

Concrete Works Construction Chemicals Private Limited (CIN: U74999PN2021PTC199740)

Corp. Office: Office No. 70, Mahavir Center, Fourth Floor, Sector 17, Vashi, Navi Mumbai 400703. Reg. Office: 1471 D.B. House, Office No. F-4, 4th Floor, Madhav Nagar Road-EWSD Sangli, 416416

**Email:** info@cwcchemicals.com | **Web.:** www.cwcchemicals.com







#### **Dosage**

The rate of addition varies from 0.5% - 4% by weight of dry cement. The optimum dosage depends on the nature of the work

## **Advantages**

- Drastically improves the fluidity and flowability of the mix.
- Ensures high early strength and rapid gain of later strength
- Increased flexural and tensile strength.
- Provides additional resistance to dynamic and repetitive loading.
- Compensates cement shrinkage by controlled expansion.
- Withstands thermal movements to provide improved dimensional stability

## **Shelf Life & Storage**

12 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from  $+5^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ 

## **Packing**

20kg waterproof laminated HDPE bag

## 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. The MSDS is available on www.cwcchemical.in

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