



DRA CW

Water reducer admixture



**ELEMENTS**  
QUÍMICA APLICADA

# e<sup>5</sup> DRA CW

## Description

e<sup>5</sup> DRA CW is a water reducer, formulated with high technology and environmentally friendly dispersants. It is specially designed to break the flocculating effect of cement particles in contact with water.

Designed for cold weather, where the temperature effect can provoke setting time delays. It allows water reductions greater than 5 %. It widely complies as an ASTM C 494 Type A admixture. It does not contain added chlorides.

## Benefits

- It significantly increases concrete's mechanical strength.
- Improves the rheological properties of concrete.
- It reduces concrete's permeability.
- Reduces the water/binding materials ratio.
- It is adequate for warm weather concretes.
- Increases the durability of the mix.
- It reduces the per m<sup>3</sup> manufacturing cost of concrete.
- It is highly compatible with **GUltra reactive ash** technology, for hybrid concretes with greater durability and with important economic benefits.

## Technical information

Specific gravity 1.19

Physical appearance: dark brown liquid

## Presentation

19 L pails, 200 L drums and bulk

Useful life: 12 months in its original container

## Principal applications

- Concretes for industrialized housing plans, where early form removal is required
- Durable, hybrid concretes with the **GUltra** technology
- Conventional concretes
- Pumpable concretes
- Structural concretes

## Directions for use

Performing lab tests with the job materials is recommended to improve results. This will allow making the necessary adjustments in the concrete mix, such as: appearance, workability, consistency, air content, yield, setting times and admixture dosage.

It is then important to run these tests at an industrial level, under real job conditions (humidity, temperature, time to transport fresh concrete, etc.) for the purpose of making the final adjustments.

Load all the mix design materials: aggregates, cement and 80 % of the mix water. Allow these to mix during 2 minutes. Then add the established volume of admixture with the remaining 20 % of the mix water and finish mixing.

This will allow the calcium sulfate to form ettringite with the cement's tricalcium aluminate, thus improving the admixture's performance.

Dosage can vary from 4 to 10 mL/kg of cement. This will depend on the selected mix design. An overdose can result in delays in the cement's speed of hydration.

When used in combination with an integral waterproofer, it is necessary to check the air content and setting times of the concrete mix.

Perform tests in combination with other admixtures to check for possible admixture synergies. This is specially important with air content and setting times. It is compatible with all admixtures. In the event of important variations in materials (change of aggregates, cement, etc.) it is necessary to make the required adjustment in the dosage used.

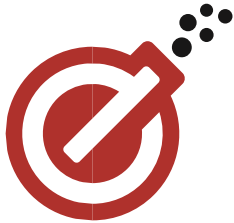
Consult with your **Element5 GUltra** Integral Solutions Advisor for the design of durable hybrid concretes with an important economic benefit.

In the event of extreme temperatures, **e<sup>5</sup> DRA CW** can be used in synergy with any of our set accelerating admixtures.



### Cautions

- Do not allow the product to freeze.
- Always keep the product in its original container.
- Never add the admixture to the cement, without its prior initial hydration. Do not add the admixture with the aggregates. These actions will decrease the efficiency of the admixture.



**ELEMENTS**  
QUÍMICA APLICADA

**ELEMENTS** Química Aplicada S.A. de C.V. garantiza que el producto cumple con la calidad establecida y está exento de problemas de fabricación siempre y cuando se encuentre dentro de la fecha de caducidad establecida. **ELEMENTS** Química Aplicada S.A. de C.V. no extiende ningún tipo de garantía adicional ya que no tenemos control de variables presentes en la aplicación o manipulación del producto. El presente documento sólo contiene recomendaciones generales. La interpretación técnica que se derive en la especificación de nuestros productos, no se encuentra contenida en el mismo. No se contempla lo que no está escrito en este documento y garantía. Si es necesario conocer a detalle algún dato referente a los productos o a las recomendaciones de las cuales se desprenden los procedimientos enunciados, favor de contactar al departamento técnico de **ELEMENTS** Química Aplicada S.A. de C.V. así como visitar nuestra página web donde se pone a su disposición nuestro aviso de privacidad.

Date of last revision November 2017

#### **ELEMENT5**

División Químicos para la Construcción  
Carr. Lago de Guadalupe No. 127 Int. 601,  
Margarita Maza de Juárez, Atizapán de Zaragoza,  
Estado de México, Cp. 52926.  
Tel. +52 55 2484 2236 | +52 55 4995 3154  
contacto@element5.mx  
www.element5.mx

