Pluging Compound.

Duraplug CWS

An ISO 9001: 2008 Certified Company.

CONDURA Construction Chemicals Pvt. Ltd.

DuraPlug - CWS

Technical Data Sheet

Rapid Setting Crystalline Cement -Based,Water-Stopping Mortar.

Uses

For the rapid patching and plugging of concrete segments, concrete and brick tunnel linings, sewage systems,below ground access chambers, pipes, basements,foundations and mines.

Advantages

- Emergency water-stopping capability
- Single component - only the addition of clean water is required
- Excellent bond to the substrate
- Low exotherm minimises thermal cracking
- Pre-bagged formulation to overcome variations in site batching
- Contains no chloride admixtures

Description

Dura Plug CWS is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent, rapid setting mortar which is easy to apply in many difficult conditions. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives which control the rate of set and minimise the risk of thermal cracking. **Dura Plug CWS** provides an initial set time o approximately one minute.

Design criteria

Dura Plug CWS can be applied to horizontal, vertical or overhead surfaces at a wide range of thicknesses. Generally,the volume of mixed material used in a single application is restricted to that which can be applied by trowel or gloves hand. Thicker sections can be built up in layers. If any doubt arises about the nature of the substrate, consult the local Condura office for further information.

Properties

Compressive strength
5 N/mm_2 @ 2 hours @ 20$_o$C
25 N/mm_2 @ 28 days @ 20$_o$C
Initial set time : Approximately 1 min @ 20$_o$C
Note: Set times will be extended when mixed at lower temperatures.
Rapid setting cement-based, water-stopping mortar

Specification

Water stopping mortar
The water stopping mortar shall be **Dura Plug CWS** , a single component cement-based blend of powders to which only the site-addition of clean water shall be permitted. It must be chloride-free and must be formulated to prevent high exotherm and minimise thermal cracking.

Instructions for use

Preparation

Areas to be patched should be cut back to a depth of 15 mm and given a good mechanical key. Feather-edges must not be allowed. Surface should be brushed clean to remove loose material, dust and laitance. Grease, slime or mould growth should be removed by steam cleaning or high-pressure waterjetting. A proprietary degreasing agent should be used for removal of light oil or grease contamination.
To seal leaks, crack openings must be chased out to approximately 20 mm square. The chase should always be undercut to avoid leaving a v-section. All loose material and debris should be removed.

Mixing

Dura Plug CWS should be added to clean water in the following proportions:
one part clean water: 3 parts Dura Plug CWS (measured by volume). Mix to a stiff consistency in a suitable mixing drum or bucket, using a trowel or gloved hand. Due to the rapid set characteristics of the product, only prepare a quantity of mortar which can be placed within the prescribed set time.

Application

Trowel apply or hand-knead the mixed mortar in place,ensuring maximum contact with the substrate before the material sets. If being used to plug running water, **Dura Plug CWS** should be used and held in place until the initial set is reached.
Note the minimum applied thickness of **Dura Plug CWS** should be 15 mm.

Cleaning

Dura Plug CWS products should be removed from tools, equipment and mixers with clean water prior to the initial set.Cured material can only be removed mechanically.

Packing

Dura Plug CWS is available in , 20Kg.

Shelf life

Dura Plug CWS has a minimum shelf life of 6 Months.

Health & Safety

Dura Plug CWS non toxic. Any splashes should be washed off with water. If contact with eyes occurs, wash immediately with water and seek medical advice.

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