

STRUCTRO PLUG



Fast setting cement based water leakage instant plugging mortar

DESCRIPTION

STRUCTRO PLUG is supplied as a ready to use blend of dry powders which requires only the addition of clean water at site 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.

STRUCTRO PLUG shall be applied to horizontal, vertical or overhead surface at a wide range of thickness.

Generally, the volume of mixed material used in a single application is restricted to that which can be applied by trowel or gloved hand. Thicker sections can be built up in layers. If any doubt arises about the nature of the substrate, consult the local Starke office for further information.

APPLICATIONS

For the rapid temporary 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-packed formulation to overcome variation in site batching
- Contains no chloride admixtures.

The water stopping mortar shall be STRUCTRO PLUG, a single component cement based product to which only the site - addition of clean water shall be permitted. It must be chloride free and shall have a low exotherm to minimise thermal cracking.

STANDARDS

STRUCTRO 80 N complies with the requirements of BS EN 13813, Class CT-C35-F4

METHOD OF USE

SUBSTRATE PREPARATION

Areas to be patched should be cut back to a depth of 15mm and given a good mechanical key. Feather edges must not be allowed. Surface should be brushed clean to remove loose material, dust and laitence. Grease, slime or mould growth should be removed by steam cleaning or high pressure water jetting.

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 20mm. The chase should always be undercut to avoid leaving a V-section. All loose material and debris should be removed.

Mixing

STRUCTRO PLUG should be added to clean water in the following proportions :

One part clean water : 3 parts STRUCTRO PLUG (measured by volume). Mix to a stiff consistency in a suitable container 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.

TYPICAL PROPERTIES

initial set time Approx. 1 - 2 mins. at 27°C

Note : Set times will be extended when mixed or applied at lower temperatures.

Compressive strength : 25N/mm² @ 28 days @ 30°C

Heat generation characteristics : High heat output (exotherm) leads to undesirably high shrinkage and consequent thermal cracking. The curves below show the Low heat output of STRUCTRO PLUG which minimizes the risk of shrinkage and thermal cracking.

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, STRUCTRO PLUG shall be used and held in place until the initial set is reached.

CLEANING

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

PACKAGING

STRUCTRO PLUG available in 5Kg pack.

SHELF LIFE

STRUCTROPLUG has a shelf life of 6 months if kept in a dry store in the original, unopened bags.

HEALTH & SAFETY

STRUCTRO PLUG contains cement powders which, when mixed or become damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately - do not induce vomiting.

More from starke construction chemicals A wide range of construction chemical products are manufactured by STARKE which include:

- **Concrete admixtures.**
- **Surface treatments**
- **Grouts and anchors.**
- **Concrete repair.**
- **Flooring Coating**
- **Sealants.**
- **Waterproofing.**
- **Adhesives.**



Starke Polymer Ltd
Plot 158, kampala uganda
Construction Chemicals

Tel + 256 709 704 421
Tel + 256 792 171 023

Email: info@starkepolymers.com
[www. Starke polymers.com](http://www.Starkepolymers.com)

Important note :

Starke range products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Starke endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation, opinion or information given by it.