

CCI NEOPLUG

Rapid-setting, Cement-based, Water stopping Mortar

Description

CCI Neoplug is supplied as a ready to use blend of dry powders which require 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 minimize the risk of thermal cracking. **CCI Neoplug** provides an initial set time of approximately one minute.

Uses

CCI Neoplug can be used 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 minimizes thermal cracking
- ✓ Pre-bagged formulation to overcome variations in site batching
- ✓ Contains no chloride admixtures.

Performance Parameters

Following results obtained at 23 ± 2°C

Properties	Standard
Compressive Strength (BS 6319 Pt 2: 1983)	5 N/mm ² @ 2 hours 32 N/mm ² @ 28 days
Initial set time	Approximately 1 min

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

Specification

Water stopping mortar the water stopping mortar shall be **CCI Neoplug**, 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 minimize thermal cracking.

Instructions for use Surface Preparation

Areas to be patched should be cut back to a depth of 15 mm and given a good mechanical key. Feathered 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 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 20 mm square. The chase should always be undercut to avoid leaving a v-section. All loose material and debris should be removed.

Mixing

CCI Neoplug should be added to clean water in the following proportions:

1-part clean water: 3-part **CCI Neoplug** (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

The trowel applies or hand-kneads the mixed mortar in place, ensuring maximum contact with the substrate before the material sets. If being used to plug running water, **CCI Neoplug** should be used and held in place until the initial set is reached. Note the minimum applied thickness of **CCI Neoplug** should be 15 mm.

High Temperature

Working at ambient temperatures above 35°C, the material should be stored in the shade and cooler water (down to 20°C) used for mixing.

Low Temperature

Working in cold conditions down to 1°C, the use of warm water (up to 20°C) is advisable to accelerate strength development. Normal precautions for winter working with cementitious materials should be adopted. The material should not be applied when the substrate and/or air temperature is 1°C and falling. At 1°C static temperature or at 1°C and rising, the application may proceed.

Cleaning

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

Limitations

CCI Neoplug should not be used when the temperature is below 1°C and falling. If any doubts arise concerning application or substrate conditions, consult the local CCI office.

Technical Support

CCI offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Packaging

15 kg waterproof laminated HDPE bags.

Shelf Life & Storage

CCI Neoplug has a shelf life of 6 months if kept in a dry store in the original, unopened bags or packs. If stored at high temperatures and/or high humidity conditions the shelf life will be reduced.

Fire

CCI Neoplug is nonflammable.

Precautions

Health & Safety

CCI Neoplug 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 provides 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.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

Registered Office	Regional Office	Chennai Plant	Mumbai Plant
Office No. 210 Shah Heritage Commercial CHS Plot No. 9, Sector 48, Seawood Navi Mumbai – 400 706 Maharashtra, India Mobile: +91 93247 27785 E-mail: kashinath.bera@ccichemicals.in	'LAKSHMAN MANERE' Old No. 17/2, New No. 42/2, R Block 6 th Main Road, Anna Nagar West Chennai – 600 040 Tamilnadu, India Mobile: +91 98400 73183 E-mail: durai.murugan@ccichemicals.in	No. 1, Perumal Koil Street Azhinjivakkam Sriperumpudhur Thiruvallur – 602 105 Tamilnadu, India	Plot No. A-51 Taloja Industrial Area MIDC, Taloja Navi Mumbai – 410 208 Maharashtra, India