

CHEMILINK™ SS-123

Fast Setting Non-Shrinkage High Performance Mortar

Description

Chemilink™ SS-123 is a grey powder mixture of special cements, graded fine aggregates and chemical additives designed for fast setting non-shrinkage grout and repair mortar. It is recommended to use directly by mixing a specified amount of water to produce smooth free-flowing slurry for placing in thickness less than **30mm**. For sections of **thickness higher than 30mm**, 12.5kg powder should be used with 12.5kg aggregates(5~20mm).

Typical Uses

- All general purpose grouting
- Grouting in column bases, base infilling
- Grouting of machinery and turbines
- Repair of damaged concrete

Advantages

- High early strength: can be place into service after 4 hours
- High final strength: suitable for high loading situations
- Pourable: easy to apply in confined areas
- Environmentally friendly: non-toxic, and does not corrode reinforcement
- Shrinkage compensated: increasing cracking resistance

Technical Data

- i) Powder mixed with water, water/powder = 0.18 ~ 0.20
- Compressive Strength at 1 hour: 30 ~ 40MPa
 - Compressive Strength at 2 hours: 35 ~ 45MPa
 - Compressive Strength at 4 hours: 35 ~ 50MPa
 - Compressive Strength at 1 day: 40 ~ 55MPa
 - Compressive Strength at 7 days: 40 ~ 60MPa
 - Compressive Strength at 28 days: 45 ~ 65MPa
 - Setting Time: < 40 minutes

- ii) Powder mixed with water and aggregates (5 - 20mm), powder/aggregates = 1 : 1, water/powder = 0.18 ~ 0.20
- Compressive Strength at 1 hour: 40 ~ 50MPa
 - Compressive Strength at 2 hours: 45 ~ 55MPa
 - Compressive Strength at 4 hours: 45 ~ 60MPa
 - Compressive Strength at 1 day: 60 ~ 75MPa
 - Compressive Strength at 7 days: 60 ~ 80MPa
 - Compressive Strength at 28 days: 65 ~ 85MPa
 - Setting Time: < 40 minutes

Surface Preparation

Correct substrate preparation is very critical for adhesion performance. All surfaces should be sound, clean and free from laitance, oil, grease or any other contaminants. Prior to applying the mortar, the substrates should be thoroughly saturated with clean water.

Mixing

Mechanical mixing is recommended.

For thickness ≤ 30mm, mixing should be carried out by adding 25kg of Chemilink™ SS-123 powder to 4.5 ~ 5.0L of water in the mixer (with the mixer running) and mixing for approximately 2.5minutes, or until a smooth homogeneous slurry is produced.

For thickness > 30mm, mixing should be carried out by adding 12.5kg of Chemilink™ SS-123 powder to 2.3 ~ 2.5L of water, mixing for about 1 minute, then adding 12.5kg aggregates (5-20mm) mixing for another 1 ~ 2 minutes.

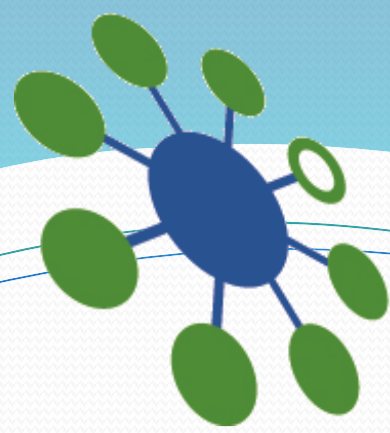
Do not mix longer than 3 minutes to ensure that available working time is not reduced.

Application

The mixed mortar should be placed as soon as possible after mixing. Tamp the mortar to ensure fully compaction.

Curing

It is essential that all exposed areas are properly cured immediately with wet hessian, polythene sheet or curing compound after the surface is dry.



CHEMILINK
ZERO WASTE ENGINEERING

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Package & Coverage

Package-1: 25kg powder / bag – for thickness \leq 30mm

Coverage: Approximately 3.5m² at 3mm thick / bag

Package-2: (12.5kg powder + 12.5kg aggregates) / bag – for thickness $>$ 30mm

Coverage: Approximately 0.35 m² at 30mm thickness / bag

Cleaning

Tools and equipment should be cleaned with water before the mortar hardens.

Storage

Chemilink™ SS-123 has a shelf life of 6 months if stored in a cool, dry place in tightly sealed bag.

Total Solution Provider for Civil & Building Construction

Jan 2013



Our technical advice on the uses of our materials is given without obligation. The buyer is responsible for the application and processing of our products, and he is also liable for observing any third party rights. Technical data concerning our products are typical values.

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