

INJECT 706

DESCRIPTION

INJECT 706 is a dry pre-blended grout that is resistant to chloride penetration consisting of a blend of Vicalpes Potable Water Approved Cement Binder, specially selected dried graded aggregates all passing a 500 micron sieve and retarders. **INJECT 706** can be used as a rod anchorage grout, for setting holding down bolts, as an injection grout for waterproofing, controlled stabilisation, void filling, grouting to sewers and areas where the resistance to chemicals and sea water is required.

PROPERTIES

- Excellent adhesion.
- Low shrinkage.
- Excellent resistance to pure water & sulphated water.
- Excellent resistance to aggressive chemicals.
- Very good cohesion & mixing.
- Fine compact surface.
- No curing necessary.
- Can be used in wet conditions.
- Can be used under water.
- Controlled setting.
- Fine particle size for greater penetration.
- Set down to zero.
- Can be used in contact with potable water.
- Can be injected in to artesian water bearing strata, as it contains no material to leach out into the aquifer.

USES

INJECT 706 is used for a rod anchorage grout, for setting holding down bolts, as a waterproof grout, grouting during repairs to sewers, controlled soil stabilisation grouting, void filling, work around the sea, in contact with potable water, fine moulding and wherever pollution or chemical attack is likely.

METHOD OF USE

PREPARING THE SURFACE

Do not use on frozen or over heated substrates (outside the range of 0°- 30°C).

MIXING

To no more than 8.4 litres of clean water per bag, gradually add whilst mixing the INJECT 706. If one bag or less is to be used it can be mixed with a rose bud type paddle attached to an electric drill (900 rpm, 1000 W). Mix vigorously for at least 2 minutes after adding all the mixture to the water. INJECT 706 is designed to give a fluid mix but this only develops after sufficient mixing. The mix will appear dry at first. Continue mixing until fluidity develops.

For optimum results mix using conventional mixing machines.

Based on a water / cement ration of 24%

To no more than 8.4 litres of clean water per bag, gradually add whilst mixing the INJECT 706. If one bag or less is to be used it can be mixed with a rose bud type paddle attached to an electric drill (900 rpm, 1000 W). Mix vigorously for at least 2 minutes after adding all the mixture to the water. INJECT 706 is designed to give a fluid mix but this only develops after sufficient mixing. The mix will appear dry at first. Continue mixing until fluidity develops.

Based on a water / cement ratio of 40%

To no more than 10 litres of clean water per bag, gradually add whilst mixing the INJECT 706. If one bag or less is to be used it can be mixed with a rose bud type paddle attached to an electric drill (900 rpm, 1000 W). Mix vigorously for at least 2 minutes after adding all the mixture to the water. INJECT 706 is designed to give a fluid mix but this only develops after sufficient mixing. The mix will appear dry at first. Continue mixing until fluidity develops.

APPLICATION

GENERAL

Place the material as quickly as possible after mixing using traditional methods. Once setting has started **DO NOT** attempt to re - mix as this will cause the mechanical properties in particular strength and adhesion to be lost.

SETTING TIMES

INJECT 706 is designed to begin to set at 35 minutes and finish setting at 45 minutes at 20°C. In Winter INJECT 706 can be used down to 0°C. The set will be slower but can be accelerated by using warm water. In very hot temperatures the set will be faster and can be slowed by using cold water.

CLEANING

INJECT 706 should be removed from tools and equipment with water immediately after use.

STORAGE

INJECT 706 is packaged in a polythene inner bag re-sealable tie with a stitch sealed woven polypropylene outer bag that should be stored in dry conditions and will last for at least six months.

YIELD

Generally 960 kg / m³ of powder with a water / cement ratio of 24% will result in a bulk density of 2010 kg / m³ and a bulk density of 1800 kg / m³ with a 40% water / cement ratio.

SETTING TIME AND STRENGTH GAIN AT 50% RELATIVE HUMIDITY

	Start Set	End Set
5°C	60 mins	1 hr. 5 mins
15°C	40 mins	55 mins
20°C	35 mins	45 mins

Based on a water cement ratio of 24%

Start Set	35 Min	at 20°C
End Set	45 Min	at 20°C
	Flexible Strength (Mpa)	Compressive Strength (Mpa)
At 7 Days	3	25
At 21 Days	5	30
<i>Strength continues to develop thereafter</i>		

Based on a water cement ratio of 40%

Start Set	35 Min	at 20°C
End Set	45 Min	at 20°C
	Flexible Strength (Mpa)	Compressive Strength (Mpa)
At 7 Days	0.8	4
At 21 Days	1	4.5
<i>Strength continues to develop thereafter</i>		

HOW TO SPECIFY

INJECT 706 shall be mixed and used all strictly in accordance with the manufacturer's instructions.

PRECAUTIONS

We strongly recommend the use of GLOVES, GOGGLES and MASK. Please see MSDS sheet for full details.