

# MasterRoc MP 640S

Microfine cement for injection into rock and soil

# **Material Description**

MasterRoc MP 640S is a well graded cement milled from pure Portland cement clinker with a small portion of mineral addition.

Blaine value of 650 m2/kg.

Due to its small particle size it penetrates very well into tight joints, fissures and pore spaces to provide a watertight grouted rock or soil mass.

# **Areas of Application**

- Pre-injection in all underground structures
- Also possible for post injection
- Water ingress reduction
- Ground stabilization
- Contact injection

#### **Characteristics & Benefits**

- Excellent penetration into tight joints, fissures and pore spaces
- Durable
- Better working environment no hazardous components
- Economical solution
- Standard cement injection equipment can be used

#### **Technical Data**

Fineness (Blaine)	> 600 m²/kg
Particle size distribution:	
D <sub>95</sub>	<20 micron
D <sub>50</sub>	<6 micron
D <sub>25</sub>	<3 micron

# **Setting Times**

Injection grout properties indicated below, relates to a mix containing 1.5% MasterGlenium SKY 8100 of cement weight:

Water/Cement ratio 1:1

Mud balance 1.42 - 1.45 kg/l Flow cone <45 s Bleeding maximum <3%e

## **Mixing**

- · Fill the mixer with water
- Add Master Builders Solutions recommended water reducing admixture
- Add cement and mix for 2 minutes
- Transfer to agitator

It is very important to use an efficient mixer. Colloidal mixers give the best result. Minimum rpm for colloidal mixers is 1500. Paddle mixers are not recommended.

NB: Do not over mix. Mixing longer than recommended may cause the grout temperature to increase and set in the pump and hoses.

#### **Application**

MasterRoc MP 640S should always be used with a Master Builders Solutions recommended water reducing admixture (1.0 - 2.0 % of cement weight). The w/c ratio (by weight) should normally be between 0.6 and 1.0.

#### **Pot Life**

The mix should be kept under constant agitation prior to injection. Do not keep grout in agitator longer than  $30-40\,$  minutes.



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### **Injection**

High-pressure piston pumps are normally used to pump the suspension into the rock. The grout should be injected within 30 - 40 minutes after mixing to ensure that it keeps penetrating into the fissures. Longer open times can be achieved by using MasterRoc HCA 20 stabilizer hydration control admixture.

## **Packaging**

MasterRoc MP 640S is supplied in 20 kg paper bags and 1000 kg bags. For big jobs bulk tankers is a possible option.

## **Storage & Shelf Life**

MasterRoc MP 640S has a shelf life of six months when stored in original closed bags in ventilated dry areas.has a shelf life of six months when stored in original closed bags in ventilated dry areas.

#### **Precautions**

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

#### **Disclaimer**

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