MASTER CHEMICALS TECHNOLOGY

MC- Metal Grout

Non – shrink , Fluid High strength, meets Non- shrink requirements of CRD-C588-76

Description:

MC-Metal Grout is specially prepared , ready –to- use , non shrink grout. it is formulated for use at any consistency from fluid to damp – pack for grouting machines or plates requiring non- shrink , high –strength precision bearing , including machine bases subject to thermal movement. Complies with requirements of corps of engineers specification for non- shrink grout , CRD – C 588-76 .

Benefits :

- A ready –to- use grout that hardens free of bleeding , settlement or drying shrinkage when mixed ,placed and cured at any consistency- fluid, flowable , plastic or damp-pack .
- A non- shrink, dense grout which contains no gas-generating or air – release agents, such as aluminium powder , fluid- coke , etc..
- Agrout that withstands thermal movement and other effects caused by combination of heating / cooling and wetting /drying .
- A grout that contains ductile metallic aggregate which provides higher strength and increase impact resistance under dynamic and repetitive loading .
- Strength without vertical confinement . No cutting capping of unconfinef shoulders required .
- A grout which meets non- shrink requirements of CRD – C 588-76 .

Recommended :

- Machinery and equipment vrequiring high strength , maximum bearing , impact resistance,

  non- shrink precision grouting such as crane rail plates , rolling , stamping , drawing and finishing mills for the steel and aluminium industries .
- Paper machine mills for the steel and alluminium industries .
- Turbins , generators and centrifugal compressors .
- Applications where shrinkage must be eliminated to achieve maximum load and bearing transfer .
- Anchor bolts and rods .

Quantity to use :

On 25 Kg bag of **M C - Metal Grout** mixed with 4 ± 10% litres of water produces approximately 12 litres of grout (0.012 m^2) of grout (approximately 84 bags / m^3) using more or less water to meet consistency requirements will increase or decrease the yield .

Strength Development :

The strength of the grout is often the determining factor in diciding how soon the machine or equipment can be put into operation .

Strength is dependent on the amount of mixing water used , temperature of the base plate and foundation , curing and age of the hardened grout .

Typical compressive strengths of **M C - Metal Grout** ;

Age	Flowable Kg / cm^2
1 day	250
3 days	400
7 days	500
28 days	650

The data shown are based on controlled tests . Reasonable variations from the results shown above can be expected .

Precautions :

Ambient temperature of the bedplate , foundation and grout should be in the range 7^5C at 40^5C

Do not use water in an amount or at a temperature that will produce a flow of less than 20 seconds (CRD – C 79-77) or cause mixed grou to bleed or segregate .

Packaging :

M C – Metal Grout is packed in 25kg moisture- resistant bages.

*For more details contact **Master Chemicals Technology** technical department*

Or visit our website www.mc.com.eg

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