

### Special Purpose Composite Fast Curing Grout

#### Uses

**METOSTONE AN-512** is a polymer modified, single component , special purpose cementitious NS grout with good flowability characteristics, Excellent adhesion and durability . It is a factory blended , quality controlled , ready to use mixture in powder form.

#### Advantages and Description

- Supplied ready to use
- Easy to apply.
- Non shrink
- High flowability
- Contains hard aggregates, with very special additives which gives very good compressive strength and non shrink characteristics.

#### Application area of METOSTONE AN-512

- Concrete anchors
- As a all purpose Strong Filler
- Gavities and wide cracks.
- Base plates.
- In concrete repair.
- In machine foundations
- Columns in pre cast constructions.

#### Color

Standard color is cement concrete grey color .

#### Instructions for use

\* Protect the working area from wind and direct sunlight. the weather conditions must be taken into account to minimize it's effect on the fresh mortar.

\*Slowly add one bag of(30 kg) **METOSTONE AN-512** into 4-4.5 **liters of clean** or tap water in the mixer, the water proportion depends on the weather condition, in hot conditions it is advisable to use maximum required water content

\*Add and stir well for 4-5 min until reaching the required consistency.

\*Mix for another 2-3 minutes then start application.

#### Application of the grout :

\*The mix is poured into the mold in a continuous motion without interruption.

\*No other machine should be used near the fresh grout until the grout hardened.

\*The fresh mix must only be poured from one end only.

\*Use the help of flexible steel wire to place the grout under the steel plates.

\*Any unwanted prominent parts or angles should be removed after the grout has hardened .

\*Wait at least two days before removing any adjustment blocks.



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\*Control all nuts and screws of the machine after it starts working.

#### **Curing**

-100-200 g/m<sup>2</sup> **METOCURE** curing agent should be applied to the dry cleaned exposed grout surface . It is manufactured to conform to ASTM C309.

-**METOCURE** has the advantage of preventing initial water loss from the concrete surface and eventually result in better quality and higher strength concrete . Depending on the type of curing agent used best results can be achieved if no moisture is present on the surface of concrete during the curing agent application.

#### **STORAGE:**

-Store in a dry , non humid area, way from direct sunlight.

-No more than five bags should be stacked on top of each other,

-For cement based grout. preferably use in 6 months from production date and if properly stored this period can be as long as 6 months.

#### **Cleaning**

All tools should be washed with water after use.

#### **CAUTION:**

**Fire:** METOSTONE AN-512 is not flammable.

#### **Health and safety**

\* METOSTONE AN-512 is a cementitious material and be come alkaline when mixed with water therefore avoid contact with skin it can be harmful and wash thoroughly with water.

#### **LIMITED WARRANTY**

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct also based on our long experience in this field of construction.

METOP LTD. Warrants it's product to be free of manufacturing defects and contains best quality ingredients. Since no control is exerted over it's application and use METOP LTD. Makes no warranty ,either expressed or implied, concerning this product.

Extra and special guaranties can be granted to certain big project by obtaining mutual agreements between concerning parties. The company detailed application instructions must be complied with for any company guaranties to be applicable.



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**Special Purpose Composite Fast Curing Grout****Technical properties of METOSTONE AN-512***Suitable ASTM C1107 and CRD-C621-83*

Material properties	Non shrink cementitious grout high polymer modified for thick apply
Slump ( <i>UN 8997</i> )mm	> 55
Water content	For 100 kg mixture Min 14 liters (14%) Max. 16 liters (16%)
Consistency	Flowable
Flexural strength (mechanical properties at 14% water content)	After curing for 1 day-----6.5 Nmm <sup>2</sup> 3 days-----7 Nmm <sup>2</sup> 7 days-----8 Nmm <sup>2</sup> 28 days-----9-11 Nmm <sup>2</sup>
Compressive strength	After curing for 1 day-----30-40 Nmm <sup>2</sup> 3 days-----40-50 Nmm <sup>2</sup> 7 days-----50-60 Nmm <sup>2</sup> 28 days-----60-75 Nmm <sup>2</sup>
Density (wet)	1650-2200 Kg /m <sup>3</sup> Dependson aggregate type
Application temperature	(+5 , +35 ) °C
Workability time	20 -45 min at 20 °C
Storage	Dry, non humid area, not more than five bags can be stacked on top of each other. Should not be stored more than 5-6 months
Bleeding	Non (UN 8998)
Chlor content	Does not contains any chlor.
Freeze and thaw repetition resistance	No changes in elasticity modulus after 300 repetitions .
Expansion at plastic stage	> 0.3 %
Elasticity Modulus	26.000 N/mm <sup>2</sup> (in 7 days) , 30.000N/mm <sup>2</sup> (in 28 days)
Chemical resistance	Resistant to Sulphates , chlor and carbon dioxide
Bond strength	Approx. 4-6 N/mm <sup>2</sup>
PULL OFF strength	>3.6 N/mm <sup>2</sup>
Application Thickness	1-10 cm /For wider and deeper dimension Aggregate size must be change according to the Metop company advise
Package	30 kg craft bags –or big bags