

Cementations flowable grout and concrete filler

Uses

POLYPATCH AN 112 is a polymer modified, single component , concrete filler grout with a good flow ability 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.
- High flowability
- Contains hard aggregates, with very special additives which gives very good compressive strength and low shrink characteristics.

POLYPATCH AN 112 Application area

- Concrete anchors
- Tie-Rod holes
- Gavities and wide cracks.
- Base plates.
- In concrete surface 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 (25 kg) **POLYPATCH AN 112** into 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.
- *Use Hoppergun or any other suitable hand pump for filling holes,
- *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 some simple hand made tools to pushback grouts in to holes or grout under the steel plates.
- *Any unwanted prominent parts or angles should be removed after the grout has hardened .
- *Wait at least two hours before the other end closing of the holes .



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Curing

100-200 g/m² **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 8 months from production date and if properly stored This period can be as long as 10 months. Under good conditions storage

Cleaning

All tools should be washed with water after use.

CAUTION: *Fire: Health and safety*

POLYPATCH AN 112 is not flammable.

POLYPATCH AN 112 is a cementitious material and become 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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Technical properties of POYPATCH AN 112

Suitable ASTM C1107 and CRD-C621-83

Table 1.0-TECHNICAL PROPERTIES	
Material properties	Cementitious grout , high polymer modified for thick apply and filling concrete holes , Wide cracks,and as a surface renewer
Slump (<i>UN 8997</i>)mm	> 60
Water content	For 100 kg mixture Min 15liters (16%) Max. 18liters (18%) Can be slow change according to the weather condition
Consistency	Highly Flowable- or Tixo body for non sugging
Flexural strength (mechanical properties at 16% water content)	After curing for 1 day-----3 Nmm ² 3 days-----5Nmm ² 7 days-----7Nmm ² 28 days-----9Nmm ²
Compressive strength	After curing for 1 day-----16 Nmm ² 3 days-----28-Nmm ² 7 days-----35 Nmm ² 28 days-----50 Nmm ²
Density (wet)	1700-2000 Kg /m ³
Application temperature	(+5 , +35) °C
Workability time	30-45 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 10 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	> 0.1 %
Elasticity Modulus	24.000 N/mm ² (in 7 days) , 28.000N/mm ² (in 28 days)
Chemical resistance	Resistant to Sulphates , chlor and carbon dioxide and petrol
Bond strength	Approx. 1.5 N/mm ²
PULL OFF strength	>2 N/mm ²
Application Thickness	1-5 cm (POLYPATCH AN 112), 5-10 cm POLYPATCH AN 412
Package	25 kg craft bags –or big bags