

# POLYPATCH-CONMIX CONCRETE MODIFIER

PRODUCT DATA SHEET

## POWDER FORM POLYMERIC SPECIAL MODIFIER

### PRODUCT DESCRIPTION :

**CONMIX** is a type of Concrete modifier in powder form.

**CONMIX** contains very special additives, super plasticizer , together with a high quality polymers and color pigments also reinforced by special polypropylene fibers.

**CONMIX** concrete modifier is a special design that changes normal concrete to PCC concrete . All type of concrete can be modify by using **Conmix**.

Polymer modification of concrete increases its tensile and flexural strength and reduces its brittle nature by increasing toughness of the concrete.

Polymer modified Portland cement paste is a composite material consisting of an inorganic cement .

The composite Material is a solid material whose properties are superior to those of the original.

The basic characteristics of Conmix polymer and hydrated Portland cement paste

Polymer Cement Concrete	Hydrated Cement Paste
Organic	Inorganic
Low modulus of elasticity	High modulus of elasticity
High tensile strength	Low tensile strength
High elongation	Low elongation
High fracture toughness	Low fracture toughness
Temperature sensitive	Temperature insensitive

### PROPERTIES OF CONMIX IN MODIFIED CEMENT

Polymer modification of cement paste changes the properties of mortar and concrete.

These effects depend, on the polymer content, the type of polymer and the design of the mortar or concrete.

Typical effects effects of polymer modification on performance of Portland cement mortars and concrete.

Property	Effect
Tensile strength	Increased
Adhesion	Increased
Water vapor permeability	Decreased
Chloride penetration resistance	Decreased
Chemical resistance	Increased in some chemicals
Fracture Toughness	Increased

### Advantages :

- \*Ready to use,
- \*Polymer additives increase the mobility of the mixture, Reduce cracks
- \*Increase the water resistance, frost resistance,
- \*Increase resistance to cracking and aggressive environments.



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### PRIMARY APPLICATIONS

- \*In all types of interior and exterior concrete floors
- \*Hotel entrance, walkways and car parks
- \*Residential buildings,
- \*Theme parks decorative walkways
- \*Industrial floors.
- \*Warehouses.
- \*Heavy traffic car parks
- \*Side walks and piers.
- \*Sea side concreting
- \*And in , all type of cement mortars.

### Color

Standard color is cement concrete grey color, can also produce brick red, green, dirty yellow, brown and black .

### Instructions for use

- \*Add slowly one bag of (30kg)/m<sup>3</sup> **CONMIX** in to the fresh concrete mix in the mixer and mix well
- \*The mix is poured into the prepared concrete forms and molds.
- \* Apply to the concrete surface **Metop Ex** polymermodified surface hardener to the commix added fresh concrete surface min 5 kg/m<sup>2</sup>, than trowel by power float ,
- \*Apply to the finished surface **METOCURE ACR 150** curing agent .

### Cleaning

All tools should be washed with water after use.

### CAUTION:

**Fire: CONMIX** is not flammable.

### Health and safety

\* CONMIX 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.

### COVERAGE

Average consumption 1 (30kg bag /1 m<sup>3</sup> ).

### PACKAGING

-In 30 kg craft bags. Together with reinforcement fibre

### 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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