ISO REPAIR 620

Product Data Sheet

ISOBIT BUILDING CHEMICALS

Description:

ISO REPAIR 620 is a specially formulated concrete repair mortar with fiber and SRC having a non-shrink property with high adhesion to concrete.

Uses:

- Heavy repair of concrete
- Specially made for columns, slabs, and repair of heavy concrete damages
- Repair of concrete in highly corrosive environments such as marine structures, sea walls, port structures, etc.

Advantages:

- Extra reinforced strength due to the presence of fiber
- Best for high build applications
- Suitable in marine and industrial conditions
- Prevents the corrosion of steel reinforcement in concrete
- It can be applied by trowel, pump or spray.

Application procedure:

1- Surface preparation:

The surface of the concrete to be repaired should be sound, clean and uncontaminated. The decayed or damaged area should be saw cut, keeping the sides of the area as square as possible. Loose materials must be removed carefully using suitable means such as sharp tools or chipping hammer. If the reinforcement is corroded make sure that the back of the steel is completely exposed. Then clean the steel to bright metal condition.

Technical Properties:

Appearance :	powder.	
Bulk density :	1 .4g/cc.	
Grain size:	up to 2 mm .	
Compressive strength at 7 days ASTM C 579:	20 N/mm2 .	
Compressive strength at 28 days ASTM C 579:	> 30 - 40 N/mm2.	
Special ingredients	Polymers, Binders, and fiber	
Corrosion :	Chloride free.	
Setting time :	Temperature .	
	20 C	30 C
	3.5 hours.	2 hours.
	4.5 hours.	2.5 hours.
Mechanical properties At 28 days Flexural strength N/mm2 ASTM C 580:	5-10 N/mm2.	

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2- Priming:

a. Reinforcement steel: After cleaning, prime the cleaned reinforcement steel using Zinc rich primer.

b. Concrete: If the concrete damage is severe and is due to chloride attack, a bonding coat with ISOBOND S.B.R is advisable before placing ISO REPAIR 620 to achieve an optimum bond in the fresh and cured sections. To achieve an optimum bond between fresh and cured sections, ISO REPAIR 620 should be applied when the bonding agent is tacky.

3- Mixing:

ISO REPAIR 620 can be mixed by hand or by mechanical mixing. For hand mixing, slowly add the ISO REPAIR 620 to clean gauged water, working well to produce a smooth mortar.

The consistency of the mix can be adjusted by the addition of more powder or water as necessary.

4- Placing and finishing:

Whilst the primer is still tacky, apply the mortar mix and compact well. The application can be with a trowel or a rubber hand glove to paste the material in place. ISO REPAIR 620 can be applied to the desired thickness in layers on vertical and overhead surfaces. High build application can be achieved by using a form-work. While applying multiple layers, the previous layer should be crosshatched and allowed to set before applying the next coat. ISO REPAIR 620 can be applied to a thickness of 20 mm at one pass if the ambient temperature is less than 250C and the weather conditions are normal. Strong winds and low humidity would result in rapid moisture evaporation and effect affecting the curing process.

5- Curing:

ISO REPAIR 620 should be cured in accordance with good concrete practice by application of suitable curing agents

Cleaning:

Clean all the tools with water immediately after use. Hardened materials can be removed mechanically only.

Packing:

Available in 25 kg bags.

Storage:

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Shelf life:

Shelf life is up to 12 months when stored as per recommendations.

Health and Safety:

As with all construction chemical product, caution should be alwas be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediatly. Should any of the products be accidentally awallowed, do not induce vomiting, but call for medical assistance immediately.

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ISOBIT for Building Chemicals

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