

Creative Repair Mortar

High Strength, Fiber Reinforced Cementitious Structural Repair Mortar

DESCRIPTION

Creative Repair Mortar is a ready to use single component, polymer modified non-shrink structural repair mortar containing fibers and silica fume. It contains specially selected ingredients to provide high strength, excellent adhesion, fine smooth repaired surfaces.

SCOPE OF USE

Creative Repair Mortar is a fine, ready to use repair mortar for repairing load bearing structures, precast concrete elements, etc. It can also be used to repair honeycombs, surface defects, blowholes, tie rod holes and damages surface. It can be used in vertical, overhead and floor patch repair situations with ease. It can also be used as dry pack mortar of various consistencies by adjusting the water content of the mix.



TYPICAL PROPERTIES AT 25°C WITH W/P RATIO AT 0.14

PROPERTY	TEST METHOD	VALUE	
Component		Single	
Form		Powder	
Colour		Grey	
Fresh Wet Density	BSEN 12350-6	2.30 kg/ltr +/- 0.05	
Working Time		20 Minutes	
Compressive Strength	ASTM C109	1 day	40 N/mm ²
		28 days	75 N/mm ²
Bond Strength	ASTM D4541	>2 N/mm ² at 28 days	
Flexural Strength	BS 6319-3	11 N/mm ² at 28 days	
Tensile Strength	BS 6319-7	6 N/mm ² at 28 days	
Water Absorption (ISAT)	BS 1881-208	<0.01 ml/m ² /sec at 2 hrs	
Water Permeability	BSEN 12390-8	<8mm	
Rapid Chloride permeability	ASTM C1202	<650 coulombs	
Drying Shrinkage	ASTM C157	<500 micro strain at 28 days	

SURFACE PREPARATION

The area to be repaired should be clearly marked and saw cut to a depth of at least 5 mm to avoid feather edges. The surface should be clean and sound. Remove dirt, dust, oil, grease, laitance, sealers, release agents,

curing compounds and paints. Exposed rebar should be cleaned by suitable means and protected with Zinc Primer.

KEY ADVANTAGES

- User friendly, excellent workability
- Fibers help in reducing micro cracking of repaired surfaces
- Non-shrink mortar
- Non-toxic and non-corrosive
- Extremely low permeability
- Excellent resistance to aggressive environmental elements
- Excellent adhesion and mechanical strength
- Chloride free, safe to use in repairs of reinforced concrete surfaces
- Repairs to reinforced or prestressed concrete elements



MIXING

Creative Repair Mortar is mixed with water to yield a stiff but easily workable mortar. The amount of water to be added is 3.50 lts for 25 kg bag. Mix using a heavy duty slow speed drill machine attached with a paddle for at least 3 minutes to ensure a homogeneous lump free material is achieved. Do not try to remix the mortar after it loses its workability by addition of extra water.

APPLICATION

Creative Repair Mortar can be applied by hand, trowel or spray. Care should be taken to ensure that the repair material is applied behind the steel reinforcements. If sagging occurs, remove material and start again at reduced thickness. The surface can be finished with a steel, wooden or plastic float. A sponge float may be used to achieve a rough texture. Do not over work the surface. **Creative Repair Mortar** is formulated for spray and trowel applications.

APPLICATION THICKNESS

5 mm to 50 mm in a single layer for horizontal surface

5 mm to 20 mm in a single layer for vertical surface

5 mm to 15 mm in a single layer for overhead surface

COVERAGE

1m² /bag at 12 mm thickness

LIMITATIONS

At temperatures above 35°C it is recommended that measures are taken to reduce material placing temperatures. These include: storing materials and equipment under cool shade and away from direct sunlight. Avoid installation during the hottest part of the day. Ensure that water temperature is kept below 20°C.

PACK SIZE

25 KG bag

YIELD

12ltr / 25kg bag

CURING

To prevent rapid surface drying and crazing, repair mortar should be cured by spreading wet burlap or moist hessian over the surface. Alternatively curing compound can be used.

GENERAL INFORMATION

SHELF LIFE	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
CLEANING	Clean all equipment and tools with water immediately after use. Hardened material can be removed mechanically.

HEALTH AND SAFETY

PPE's	Gloves, goggles and suitable mask must be worn.
Precautions	Contact with skin, eyes etc. must be avoided.
Hazard	It is considered as non-hazardous for transportation.
Disposal	Do not reuse bags. To be disposed off as per local rules and regulations.
Additional Information	Refer MSDS. (Available on request)

TECHNICAL SERVICE

Creative Chemical Company technical services are available on request for onsite support to assist in the correct use of its products.



Creative Chemical Vietnam Co. Ltd.

No-15, Street-10A, Bien Hoa Industrial Zone 1, Bien Hoa City, Dong Nai, Vietnam
Phone: (+84) 251 8877 400, (+84) 61 3836 125, Email: info@creativechemical.net, Web: creativechemical.net

Creative Chemical products are produced with ISO 9001:2015 standard terms and conditions. So it's customer responsibility to maintain and follow up the TDS and weather forecast carefully. We can not guarantee the application and end use as it depends on various conditions and weather.