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A Better Solution

TECHNICAL DATASHEET

ASCOREPAIR RAPID

Rapid Hardening High Build Cementitious Mortar

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PRODUCT INTRODUCTION

ASCOREPAIR RAPID incorporates high grade cement systems and advanced polymer additives to form a cementitious mortar which is chloride and sulphate resistant. It is the ultimate high performance rapid setting repair mortar where engineers require a positive outcome in the most difficult application environments. ASCOREPAIR RAPID provides rapid setting times and high chemical resistance which ensures repairs can be undertaken within tidal zones and other applications requiring fast return to service.

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KEY FEATURES

1. Rapid strength gain
2. Suitable for early submersion
3. Chloride and sulphate resistant
4. Dual shrinkage compensated
5. Excellent adhesion with many substrates
6. Internal or external applications
7. Easy to use- simply add water and mix

RECOMMENDED APPLICATIONS

1. Repair of concrete damaged by reinforcement corrosion or damage
2. Repairs to spelled columns, beams, slab etc. caused by corrosion of steel
3. Repairs of RCC bridge and road
4. Precast concrete repairs
5. Industrial Floor repairs and toppings
6. Repairs to airport runways
7. High build repairs for vertical, overhead and horizontal repairs

TOOLS & CLEAN UP

Compulsory Mixing with twin-shaft mixer. If using a mixing pump, use a batch mixer. Clean tools with soapy water while the material is still fresh.

DISPOSAL

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

TECHNICAL PROPERTIES

Appearance	Grey powder
Initial Setting Time	20 – 25 minutes
Final Setting Time	30 – 40 minutes
Time to Light Traffic	2 hour
Fresh wet density	2150 ± 50 kg/m^3
Tensile Adhesion Strength	> 2.0 N/mm^2 @ 28 days
Water Demand	12 to 15 %
Compressive Strength	> 45 N/mm^2 @ 7 days

CONDITIONS FOR USE

i. Temperature of the material, air and substrate: from min. + 5 °C to max. + 35 °C
ii. Low temperatures increase, while high temperatures decrease the working and setting time.

APPLICATION METHODS:

1. Surface Preparation

Substrates should be clean and free from all contaminants, loose particles, coatings, dirt, mould, oil etc. Substrates must be sound, rough and dampened to ensure a good bond. Prior to placing grout, surface should be saturated for a minimum period of four hours and preferably for twenty-four hours. Pre-wet the substrate so that it is slightly moist. Expose the grains close to the surface.

2. Mixing

Pour water into a clean container and add dry mortar ASCOREPAIR RAPID. Mix thoroughly with a mixer for approximately 3 minutes until homogeneous. Allow to mature for approximately 1 minute. Then mix again for at least 1 minute until the proper consistency for working has been achieved.

3. Application Method

Any cracked or weakened surface should be removed and repaired to provide a solid foundation. It is recommended that for large areas a minimum depth of 5 mm be prepared as to avoid excessive feather edging or skim coating. Break out the repair area to a minimum of 5 mm up to the saw cut edge. Scabbing or high pressure water blasting should be used to remove laitance and provide a mechanical key. If any corroded steel is present remove all loose scale and corrosion/rust deposits. Grit blasting is effective in removing corrosion, and all steel including re-bars should be cleaned to a bright condition. Immediately after cleaning steel, the steel should be treated with ASCOPRIME RUSTCON. This will stop further oxidation and corrosion. The substrate should be thoroughly soaked with water (any excess being removed) prior to applying one coat of ASCOBOND 450 with OPC at the mixing ratio of 1:1 and applying it well into the surface. ASCOREPAIR RAPID can be applied as soon as the ASCOBOND 450 become tacky. ASCOBOND EP can be applied as an epoxy bonding agent for ultimate bonding where ultra-rapid application is required. Apply the mixed ASCOREPAIR RAPID material to the prepared surface using a trowel or a gloved hand.

Manual working - Use the product to apply a scratch coat. Thickness should be 5 – 25 mm in single layer. If required higher thickness not more than 50 mm, the second layer applied while the first is still wet.

4. Coverage

Approximately 1.5 m^2 @ 10 mm thickness 0.3 m^2 @ 50 mm thickness

6. Curing

It is a very important to prevent early plastic state moisture loss prior to the product setting. Cure product thoroughly after it has set by keeping it wet and covered for at least 7 days or apply a curing compound.

7. Packaging

Available in 30 Kg and 50 Kg sealed bag.

1 Shelf Life

i. 6 months from the date of production if stored in original, unopened packaging and in places protected from moisture, sun exposure and frost.

DISCLAIMER:

While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at www.ascolite.in. Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/ warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.