

PRODUCT DATA SHEET

ROCBinder 121

Polymer Modified, Fiber Reinforced Concrete Repair Binder.

Product Description

ROCBinder 121 is a pre blended mortar binder only, addition of sand filler/aggregate to be added on site (1:1 ratio). This allows you to get a very close colour match to the host concrete by using the same aggregate as the site conditions.

ROCBinder 121 is designed for multi-purpose concrete repairs, such as honeycombed, spalled and damaged concrete.

Uses

- **ROCBinder 121** is ideal for thin and thick concrete repairs of:
- Precast Concrete pipes
- Culverts
- Concrete Poles
- Sewer Manholes
- All concrete precast structures

Advantages

- Easy to mix apply
- With the use of site aggregates the repair mortar, blends in with the existing colour of concrete
- High water resistance & freeze/thaw resistance
- Low shrinkage
- Excellent adhesion properties
- High early strengths

Product Data

Appearance	Powder
Colour:	Precast Grey (as per the aggregates used)
Packaging	Supplied in 25kg moisture resistant bags
Wet Density:	(Will vary according to aggregates used)
Yield:	±12.5lt p/25kg bag when mixed with aggregates
Coverage:	Applied @ 12.5mm thick 1 bag cover ±1m ²
Shelf Life:	12 months in original unopened bags, when store in the correct storage conditions.
Storage Conditions:	Store in a dry condition at 22°C

Physical Properties

Compressive Strength	<50Mpa @ 28 days
-----------------------------	------------------

(Test was done with silica sands graded 0.07mm – 1.2mm)

ASTM C – 109

The compressive strength complies with the minimum requirement as per EN 12190 for Class II which is **50 Mpa**

Flexural Strength	12Mpa
--------------------------	-------

(Test was done with silica sands graded 0.07mm – 1.2mm)

Setting time [min]	
Initial set	180 min
Final set	360 min

(Test was done with silica sands graded 0.07mm – 1.2mm)

Directions for Use

NON-STRUCTURAL CONCRETE REPAIRS

Surface Preparation

Prepare the surface prior to application by removing all loose material and oil-based products.
Pre saturate the concrete surface.

Priming

Apply a bonding primer onto prepared concrete using **PG45 PlasterGrip**.

Mixing

- Mix design: add 1-part **ROCBinder 121** with 1 part sand filler/aggregate (filler can be of any particle size, for finer repairs the crusher dust can be sieved and used).
- Once dry material is mixed, add water and mix to the desired consistency (not more than 3.5lt per 25kg mix).
- For extra adhesion & water repellency **PG45 PlasterGrip** can be added, by replacing up to 30% of the water content.

Placement

Immediately apply the wet repair mortar onto the wet primer (**PG45 PlasterGrip**) at the required thickness, with a steel notched trowel or steel float.

Once the repair mortar has firmed, use a steel trowel to smooth off.

EXPOSED REBAR & STRUCTURAL CONCRETE REPAIRS

Surface preparation

- Where necessary cut back to exposed sound concrete and reinforcing bar.
- Prepare the surface prior to application by removing all loose material and oil-based products.

Priming

Prime all clean prepared concrete and steel surface with GripEpoxy 107 – wet to dry epoxy adhesive @ 1mm thick

Mixing

- Mix design: add 1-part **ROCBinder 121** with 1 part sand filler/aggregate (filler can be of any particle size, for finer repairs the crusher dust can be sieved and used)
- Once dry material is mixed, add water and mix to the desired consistency (not more than 3.5lt per 25kg mix)
- For extra adhesion & water repellency **PG45 PlasterGrip** can be added, by replacing up to 30% of the water content.

Placement

- Immediately apply the wet repair mortar onto the wet primer (**GripEpoxy 107N**) at the required thickness, with a steel notched trowel or steel float.
- Once the repair mortar has firmed, use a steel trowel to smooth off.

Watchpoints

Do not mix more material that could be used in 20 minutes

Do not rewet mix, once the material has started to set.

Curing

Moisture cure for 24 hours or use **GripCure ACRYLIC**

Health and Safety

Refer to **ROCBinder 121** MSDS sheet



Stanton Construction Chemicals Pty (Ltd).
 Unit 2A Veni View Park 547 Heritage View Drive
 Muldersdrift, South Africa, 1735
Tel: +27 (0) 10 593-4454
Email: www.office.co.za
Website: www.sccsa.co.za



The information, and, in particular, the recommendations relating to the application and end-use of SCC products, are given in good faith based on SCC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with SCC's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. SCC reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. Users must always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of SCC.