

**FORMULATORS, MANUFACTURERS AND CONSULTANTS OF
SPECIAL CONCRETE PRODUCTS**

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ROCKBOND ABRASION RESISTANT GROUTDESCRIPTION:

ROCKBOND ABRASION RESISTANT GROUT (RB ARG) powder is a premixed, ready to use, acrylic polymer resin modified cementitious grout powder. The compound contains a unique blend of cements, graded bauxite sands and a union of admixtures. The powder, when mixed with water, produces a cementitious grout which quickly hardens to produce a strong bonding, high strength, impermeable and wear resistant material. The grout is specially designed for use in mechanically aggressive environments to withstand heavy loading, impact and abrasion. ROCKBOND ABRASION RESISTANT CONCRETE (RB ARC) contains a bauxite aggregate, and is applied to sections greater than 60mm. ROCKBOND ABRASION RESISTANT GROUT and ROCKBOND ABRASION RESISTANT CONCRETE are packaged in 25kg moisture proof, durable bags and have a shelf life of 5 years.

SPECIAL PROPERTIES:

- * Portland cement based, microsilica enhanced, polymer modified and shrinkage compensated.
- * Quickly and easily mixed with water, poured and placed.
- * Formulated to produce an exceptionally dense, strong, impermeable and durable material.
- * Incorporates graded bauxite sands and aggregates which are resistant to mechanical attack.
- * Tough: high tensile strength, durable to cyclic and vibrational stresses.
- * Shockproof and shatterproof: stays in place after continual exposure to impact and collision.
- * High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

USES:

- + To repair and protect concrete structures and surfaces from mechanical attack.
- + To protect concrete surfaces in heavy engineering and railway workshops and shipyards.
- + For use in heavy and massive machine assembly plants, factories and warehouses.
- + In confined spaces where fork lift traffic and heavy vehicles collect and maneuver.
- + On roads and areas where the traffic is steel wheeled or on caterpillars.
- + To repair and protect concrete against loading buckets, shovels and grabs.
- + To protect concrete in running water situations from floating debris, scour, sand and stones.
- + Military installations, and high security safe protection.
- + To fill and prevent the cutting and removal of security barriers, gates, fences, doors and panels.

MIXING INSTRUCTIONS:

ROCKBOND ABRASION RESISTANT GROUT and CONCRETE powders are mixed with water using a ROCKBOND CONCRETE STIRRER (RB CS), a pneumatic or electric power tool (1kW), and a ROCKBOND 25 LITRE MIXING CONTAINER (RB 25LMC). Use a ROCKBOND FORCED ACTION PAN MIXER (RB FAPM) to mix larger amounts of material.

Add 4.00 litres of water to the container or mixer.
Pour 25kg of the ROCKBOND ABRASION RESISTANT GROUT powder onto the water while mixing.
After all the powder has been added, mix for 30 seconds.
The grout is now ready for use.

ROCKBOND ABRASION RESISTANT GROUT AND CONCRETE.

MIXING INSTRUCTIONS CONTINUED...

ROCKBOND ABRASION RESISTANT CONCRETE is mixed with water at 11% water content: 2.75 litres of water/25kg bag.

Alternatively, small amounts of the material can be prepared by slowly adding the powder to a quantity of water and mixing to the required consistency.

APPLICATION PROCEDURE:

Thoroughly and completely abrade the surface where necessary to produce a sound substrate with a good mechanical key. All traces of contamination must be removed. Vacuum clean or blow away all dust and debris.

Ensure that all surfaces which the ROCKBOND ABRASION RESISTANT GROUT and CONCRETE come into contact with are clean and dust free. All traces of contamination must be removed. A strong concrete substrate free of all friable material will enhance a good bond.

On weak, friable or porous substrates, use ROCKBOND PRIMER LATEX (RB PL) to penetrate, consolidate, strengthen and seal the surface. With a brush or a soft broom, brush the latex completely and evenly over the surface. Work the latex well into the substrate. Pay particular attention to the edges of the repair, and brush the liquid at least 25mm beyond the perimeter of the repair area. Let the latex dry out, usually 15 to 30 minutes depending on conditions.

To prime the substrate and to enhance the bond, apply a second coat of the latex to the first coat. Normally, 1 litre of the ROCKBOND PRIMER LATEX will treat 5m² of concrete surface with a two coat application.

After the application of ROCKBOND FASTROCK MATERIALS, any exposed grout or concrete must be cured immediately with ROCKBOND CURE (RB C) at the rate of 10m²/litre. During adverse curing conditions, repeat the procedure.

For applications in high volume/low surface area situations (sections greater than 60mm approximately), or where the material is exposed to abrasion or aggressive mechanical attack, ROCKBOND ABRASION RESISTANT CONCRETE should be used.

For applications which require a non flow material, use ROCKBOND ABRASION RESISTANT MORTAR (RB ARM), and for sections at greater than 60mm approximately, use ROCKBOND ABRASION RESISTANT SCREED (RB ARS).

HEALTH, SAFETY AND STORAGE:

ROCKBOND ABRASION RESISTANT GROUT and CONCRETE powders are non toxic and safe to use. However, use the same precautions as with any cementitious product: wear goggles, protective clothing and a dust mask while mixing and applying the material. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

ROCKBOND PRIMER LATEX is non toxic and safe to use. However, if splashes enter the eyes, the latex must be immediately washed out with plenty of clean running water. Continue the treatment for several minutes with the eyelids kept open. Wear goggles, a mask and protective clothing while handling, spraying and applying the material. Consult the relevant MSDS for further details. Store in a cool, dry, dark place.

ROCKBOND ABRASION RESISTANT GROUT AND CONCRETE CONTINUED...

TECHNICAL DATA:

ROCKBOND ABRASION RESISTANT GROUT

TYPICAL DATA at 12% water/powder ratio at 20°C

CONSISTENCY: Flowing
CONSISTENCY LIFE: 60 minutes
DENSITY: 2500kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
25	40	90	MPa

YIELD: 25kg of powder yields 10.25 litres of Abrasion Resistant Grout.
1m³ of Abrasion Resistant Grout requires 2.350 tonnes of powder.

ROCKBOND ABRASION RESISTANT CONCRETE

TYPICAL DATA at 11% water/powder ratio at 20°C

CONSISTENCY: Flowing
CONSISTENCY LIFE: 60 minutes
DENSITY: 2600kg/m³

MINIMUM COMPRESSIVE STRENGTH:

1	7	28	Days
25	45	100	MPa

YIELD: 25kg of powder yields 10.00 litres of Abrasion Resistant Concrete.
1m³ of Abrasion Resistant Concrete requires 2.450 tonnes of powder.

FURTHER INFORMATION:

Should you require further information on this product, or details of other ROCKBOND SPECIAL CONCRETE PRODUCTS, then please do contact our Technical Department:

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IMPORTANT NOTE:

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