

TECHNICAL DATA SHEET

# DYCORE GROUT

## Dycore grout for special applications

### DESCRIPTION

Rockbond Dycore Grout is a premixed blend of fine cement powders, compatible admixtures and Thixotropic agents, which have been specifically developed for the grouting of Dycore cores in precast Dycore units. The powder, when mixed with water, is easily pumpable and penetrating. When the pressure is released, the grout will not readily slump or flow, but will become stiff, stay in place, and gain strength. The material is specially formulated for the filling of precast dycore units and voids where a shrinkage compensated thixotropic grout is ideally suited. The grout powder is packaged in 25kg plastic lined valve bags and has a shelf life of 6 months in dry conditions.



## SPECIAL PROPERTIES

- All in the bag, premixed and ready to use.
- Portland cement based, polymer modified and microsilica enhanced.
- Easily mixed, pumped and placed.
- Cohesive, extremely stable at high pressures, and will not segregate or bleed.
- Washout resistant and thixotropic: the grout will not run away.
- Excellent penetration into voids, joints, gaps, cracks and fine fissures when under pump pressure.
- The grout is shrinkage compensated, durable and will completely fill voids, cracks and cavities.
- Very low permeability, durable and resistant to chemical attack.
- High yielding, economical, non flammable, non toxic, odour free, user friendly and safe to use.

## USES

- General pumping and dycore grouting applications.
- To fill and seal voids in rubble filled brick and stone walls.
- To penetrate and seal joints, cracks and crevices in brick arches and soffit concrete.
- Vertical and soffit fixings into concrete, brick and masonry.

## MIXING INSTRUCTIONS

Rockbond Dycore Grout (RB 5.02) powder is mixed with water using a Concrete Stirrer, a pneumatic or electric power tool (1kW) and a 25 litre container. Use a pan mixer to mix larger amounts of material.

- Add 10 litres of potable water to the container or mixer.
- Pour 25kg of the powder onto the water while mixing.
- After all the powder has been added, mix for 1-2 minutes
- The Dycore Grout is now ready for use.

Rockbond Dycore Grout Accelerated is mixed with water at 40% water content: 10 litres of water per 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 appropriate consistency.

## HEALTH AND SAFETY

Rockbond Dycore Grout is 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.

## APPLICATION PROCEDURE

Generally, the equipment necessary for dycore grouting should consist of a mixer, grout pump, a reservoir with an agitator for the mixed grout, and a length of pipeline. The equipment should be set up as near to the injection point as possible.

The mixing and pumping procedure should be initially carried out using water to lubricate the equipment and check for leaks. Frictional resistance to grout flow should be kept to a minimum by using a wide bore pipeline, and reducing the length of line.

For the filling and sealing of cracks and voids in porous brick, concrete or fissures in rock, grout injection points should be located at the appropriate centres. Where possible, position injection points so they tap into interconnected cracks and voids.

When grouting into dycore units, grout injection points should be located at the base of the structure where possible, and breather holes aren't generally necessary as there are usually air escape points at the ends of the dycore units. Injection tubes should be installed and fixed fast into the concrete by using Rockbond 2.28 Rapid Repair Mortar. Mix Rockbond Dycore Grout powder with water to the required consistency. If the conditions require a stiff gel, mix the powder with water at 35% water content, which is 8.75 litres of water per 25kg bag.

Sufficient quantities of grout should be mixed to enable the pumping operation to be carried out in one operation. Monitor the pressure at the injection point.

An increase in grout pressure should be steady: a sharp rise in pressure indicates the void is full and injection should be continued at the next centre. Use Rockbond 2.28 Rapid Repair Mortar to immediately plug, stop and seal the flow of grout.

## TECHNICAL DATA

### TYPICAL DATA for DYCORE GROUT ACCELERATED at 40% water/powder ratio at 20°C

|                               |                        |    |       |
|-------------------------------|------------------------|----|-------|
| CONSISTENCY:                  | Dycore grout           |    |       |
| CONSISTENCY LIFE:             | 20 minutes             |    |       |
| DENSITY:                      | 1800 kg/m <sup>3</sup> |    |       |
| MINIMUM COMPRESSIVE STRENGTH: |                        |    |       |
|                               | Days:                  | 1  | 7 28  |
|                               | MPa:                   | 15 | 40 50 |

**YIELD:** 25kg of powder yields 18.75 litres of Dycore Grout 1m<sup>3</sup> of Dycore Grout requires 1.325 tonnes of powder

## TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our **Technical Sales Team: +64 4 568 5401**