

High strength, non-shrink, cementitious construction grout

DESCRIPTION

Rayston Grout 50 is a ready to use product in powder form, which requires only on-site addition of water to produce a non-shrink grout of predictable performance.

APPLICATIONS

Rayston Grout 50 is formulated for use at plastic or flowable consistency, and may be used with confidence for bedding, grouting and void filling operations.

ADVANTAGES

- Non-shrink
- Adjustable consistency
- Proven and predictable performance
- High bond strength to steel and concrete
- Early strength development
- Impermeable

PACKAGING

Rayston Grout 50 is supplied in 25kg bags.

TYPICAL PROPERTIES

Water addition	Flowable	3.0-3.25 ltr/25kg
	Plastic	2.7-2.9 ltr/25kg
Density		2200kg/m ³
Compressive Strength N/mm ²	Flowable	
ASTM C-109		
7 days		40-45N/mm ²
14 days		45-50N/mm ²
28 days		55-65N/mm ²
Flexural Strength BS 4551	Flowable	
28 days		≥10N/mm ²
Young's modulus ASTM C-469		28 KN/mm ²

APPLICATION PROCEDURE PREPARATION:

The surface onto which the grout is to be applied should be scabbled to remove laitance and expose aggregate. Do not use bush hammers or similar preparation equipment that can crush the aggregate but leave it in place. The surface must be free of oil, dust, dirt, paint, curing compounds or other contaminants that could impair adhesion. Soak area to be grouted to minimise absorption. Surfaces should be damp but free of standing water. Particular attention should be paid to bolt holes to ensure that these are water-free. Use oil free compressed air to blow out bolt holes and pockets as necessary. Base plates, bolts etc. must be clean and free of oil, grease and paint. Set and align equipment. If shims are to be removed after the grout has set, then lightly grease them for easy removal. Ensure formwork is secure and watertight to prevent movement and leaking during the placing and curing of the grout.

MIXING

Damp down the inside of the grout mixer with water prior to mixing the initial batch of **Rayston Grout 50**. Ensure the mixer is damp but free of standing water. Add the pre-measured quantity of

water. Slowly add the **Rayston Grout 50**, mixing continuously. Mix for 3-5 minutes until a smooth, uniform, lump-free consistency is achieved.

PLACING

Place immediately after mixing, into the prepared area in such a manner that the grout has the shortest distance to flow. Pour the grout continuously maintaining a constant hydrostatic head wherever possible.

Rayston Grout 50 grouts are suitable for use with most types of pumping equipment.

Immediately after **Rayston Grout 50** grout is placed, cover all exposed grout with clean wet hessian and keep moist until grout surface is ready to be finished, or until final set. Alternatively, consider the use of a Rayston Curing Compound.

STORAGE

Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Avoid excessive compaction. Storage life is approximately 12 months when stored in ideal conditions in original sealed bags.

PRECAUTIONS

The temperature of both the grout and elements coming into contact with the grout should be in the range of +5°C to +35°C. Do not use water in an amount of grout at a temperature that will produce a consistency more than flowable or cause mixed grout to bleed or segregate.

THICKNESS

Rayston Grout 50 should be laid at a minimum thickness of 12mm and to a maximum depth of 50mm. For applications above 50mm, consider the use of **Rayston Grout 66**.

DO NOT OVERWORK AND AVOID USING MECHANICAL VIBRATION UNTIL FINAL SET HAD BEEN OBTAINED

It is essential that a mechanically powered grout mixer be used to obtain the optimum properties. A slow speed drill and mixing paddle may be used for single bag batches only.

YIELD/CONSUMPTION

Water content 3.2 ltr. /25 kg yield /consumption 13.25 ltr. /25kg

SAFETY PRECAUTIONS

As with all chemical products, care should be taken, during use and storage, to avoid contact with the eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Re-seal containers after use.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Krypton representative. Krypton reserves the right to have the true cause of any difficulty determined by accepted test methods.

REQUEST AND REFER TO RECOMMENDED INSTALLATION PROCEDURES FOR **Rayston Grout 50 PRIOR TO USE**

QUALITY STATEMENT

All products manufactured by KRYPTON Egypt, or imported from KRYPTON affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 standards.