PADRAPAT PARS



Products for Grouting

PADRA-Flowcem GCG-235

General purpose cementitious grouting mortar

DESCRIPTION

PADRA-Flowcem GCG-235 is a cementitious, expanding, shrinkage controlled, and construction flowing mortar. PADRA-Flowcem GCG-235 is formulated to expand in two stages to sufficiently counteract the plastic shrinkage normally associated with cement grouts.

WHERE TO USE

PADRA-Flowcem GCG-235 is a general purpose construction cementitious grout which does not shrink while curing and provides sufficient expanding in plastic stage. PADRA-Flowcem GCG-235 can be used for grouting in the following locations:

- Base plates of construction foundations
- Bearing plates in machines and industrial foundations
- Concrete anchors
- Grouting the pre-placed aggregate concrete
- Columns in pre-cast construction
- As a bedding and cavity filling mortar

ADVANTAGES

PADRA-Flowcem GCG-235 offers the following beneficial properties:

- Easy to use (ready for use mortar powder)
- To be mixed with water only
- Very good flow characteristics
- Good mechanical strengths
- Adjustable consistency
- Expands in plastic stage by gas generation to avoid plastic settlement
- Does not shrink while curing, controlled shrinkage in hardening stage
- Can be poured or pumped
- Non-corrosive, non-toxic, non-flammable

TECHNICAL INFORMATION

Colour Appearance Mixing water Density

Free expansion Restrained expansion Compressive strength

Flexural strength

Full cured Working Time / Pot life Concrete grey (mixed) Powder 3.750 to 4.250 lit. for 25 kg powder 1.750 kg/l (bulk density of powder) 2.320 kg/l (Fresh mortar) 2.0 ~ 4.0 % 0.0 ~ 0.4 % 20 MPa (1 days) 35 MPa (3 days) 45 MPa (28 days) > 3 MPa (7 days) > 6 MPa (28 days) After 28 days (at 25 °C) 30 min. (25 °C)

سعادت آباد، بلوار پاکتژاد، نبش ۱۸ متری مطهری، شماره ۲۰، واحد ۶



PADRA-Flowcem GCG-235

HOW TO USE

Surface preparation	Concrete surface should be sound and laitance, oil, grease, curing compounds, in disintegrated materials, and other bond infi- substrate should be damp but free of standi- saturated thoroughly. Particular attention should be paid to bolt he Use oil free compressed air to blow out bolts Surface of metals including base plates, be scale, rust, oil, and grease. Set and align removed after the grout has set, then lightly Ensure formwork is secure and watertight to the placing of the grout. For pump application	mpregnations, waxes, foreign particles, hibiting materials from the surface. The ing water. Absorbent surfaces should be oles to ensure that these are water free. s holes and pockets as necessary. bolts, etc. must be clean and free from equipment carefully. If shims are to be grease them for easy removal. o prevent movement and leaking during
Mixing	Pour water in given quantity (approximate mixing container. Add powder while mixing speed drill (max. 400 rpm) and suitable pad uniform, and lump free consistency is a mixing. EXCESSIVE AMOUNT OF MIXING WATER	continuously. Mix thoroughly using a low dle for at least 3 minutes until a smooth, chieved. Avoid air entrainment during
	OR SEGREGATE. AVOID RETEMPING BY THE LATER ADDITION OF WATER.	
Application method	Pour immediately after mixing into the prepared area, considering that the grout has the shortest distance to flow. Pour the grout continuously and ensure that air displaced by the grout is allowed to escape. When carrying out base plate grouting, ensure sufficient head of pressure is maintained to keep mortar flowing. Exposed part of the mortar surface should be kept as small as possible. Normal curing procedures for cement mortars should generally be observed for exposed grout until grout surface is ready to be finished, or until final set. DO NOT OVERWORK AND AVOID USING MECHANICAL VIBRATION.	
Material consumption	One 25 kg bag of PADRA-Flowcem GCG-235 with 4.0 liters of added water will yield approximately 12.50 liters fresh mortar. For 1 liter fresh mortar, on the other hand, 2.00 kg powder is required.	
Application limits	Use PADRA-Flowcem GCG-235 for grouting Minimum layer thickness per pour: Maximum layer thickness per pour: Minimum application temperature Maximum application temperature	g only 20.0 mm 80.0 mm 5 °C 35 °C
Cleaning	All working tools can be clean with water material can only be removed mechanically.	

Storage / Shelf life

Store out of direct sunlight, and protected from extreme heat and rain fall. Avoid excessive compaction. The shelf life for originally unopened package is 24 months from date of production.

Packaging

PADRA-Flowcem GCG-235 is available in 25 kg bag.



سعادت آباد، بلوار پاکنژاد، نبش ۱۸ متری مطهری، شماره ۲۰، واحد ۶ ندابر و نمابر: ۶ – ۹۷۲۶۵ ۴۲۰

PADRA-Flowcem GCG-235

Safety precautions

Product is caustic (cement). Protect skin and eyes from contact with fresh mortar. Wear gloves and goggles. In contact with eyes or mucous membrane, flush immediately with plenty or warm water and seek medical attention without delay.

This product should be handled carefully to minimize dust formation during mixing. Use a light mask if excessive dust is unavoidable. Dispose of in accordance with local regulations.

