1. Product Name

Rock Hard Cement
C1157 Type II 42.5R Blended Hydraulic Cement

2. Product Description

Basic Use

C1157 Type II 42.5R Blended Hydraulic Cement is a blended hydraulic cement manufactured to be used on road pavements, mass concrete foundations, flooring, reinforced concrete and plain concrete.

Composition and Materials

C1157 Type II 42.5R Blended Hydraulic Cement is produced by blending Portland cement and other cementitious materials such as slag, fly ash, silica fume, clay hydrated lime and other pozzolans.

Type

C1157 Type II 42.5R Blended Hydraulic Cement is produced to meet ASTM C1157 Standard Specifications required for hydraulic cement.

Packaging

C1157 Type II 42.5R Blended Hydraulic Cement is available in the following packaging sizes (bags):

- Kraft Bags: 42.5Kg
- Kraft Bags: 21.25Kg
- Sling Bags: 1.7 Metric tonnes
- Bulk Bags: 2 tonnes

Benefits

- Provides stronger concrete, that lasts longer
- Early strength
- Better curing + healing rate.

3. Technical Data

Applicable Standards

ASTM International

- ASTM C1157 *Standard Performance Specification for Hydraulic Cement.*

Physical/Chemical Properties

Rock Hard Cement is formulated to provide consistent strength, durability and workability.
Hydraulic cement is composed of calcium silicates and some amount of gypsum.
The properties for C1157 Type II 42.5R Blended Hydraulic Cement include: Clinker (K), Limestone (L) and Gypsum.

4. Installation

Preparatory Work

C1157 Type II 42.5R Blended Hydraulic Cement should be mixed according to ASTM C1157. The correct proportioning of materials is essential to ensure that the concrete achieves the desired strength, durability and consistency as well as maintaining its affordability.

- It is critical when mixing concrete and mortar to have the correct proportioning of coarse and fine aggregates so as to prevent segregation, bleeding and/or poor finish.
- Water cement ratio must be controlled; the addition of water often weakens the concrete and mortar mixture causing dusting, low strength and/or severe cracking.
- Using the correct quantity of cement is also critical in ensuring that the concrete can achieve the required compressive strength.
- A balance between proportions can be achieved by doing trial mixes. This will ensure that a correct mixing proportion is achieved based on the type of aggregates used.

Precautions

- Avoid placing concrete under low temperatures
- Provide adequate protection and cure according to correspondent standards
- Follow the standard minimum cement content and maximum water/cement ratio.

Safety

- Use proper protective clothing, gloves, eye/face protection equipment.
- The production of this cement represents a CO_2 emissions reduction.

5. Availability and Cost

Availability: C1157 Type II 42.5R Blended Hydraulic Cement is available throughout the Caribbean Region in the following territories: Barbados, Trinidad, Guyana, St. Vincent, St. Lucia, Grenada, St. Maarten, Dominica and Antigua. For information about local availability contact the distributor at www.rockhard-cement.com
Cost: Pricing information can be obtained by contacting the territories distributor at www.rockhard-cement.com


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