



REPUBLIC
A CRH-ABOITIZ COMPANY



01. PRODUCT & COMPANY IDENTIFICATION

- Product:** Ternary Blended Cement
(Type IT, Type IT (MH))
- Use:** Ternary Blended Cement is used as a binder in concrete, concrete masonry, mortar and grouts.
- Company:** Republic Cement Services Inc.
Menarco Tower, 32nd St. Bonifacio Global City,
Taguig City, Philippines
Tel: +63 2 885 4596
Email: 360@republiccement.com

02. TECHNICAL INFORMATION

Ternary Blended Cement for civil engineering, building applications, and concrete products.

Republic Ternary Blended Cements are quality-assured with independent third-party certification and carry a PS Quality Mark. It is produced using sustainable cement technology and a range of formulations with comparable performance.

03. INGREDIENTS

- 60-80% Portland Clinker
- 2-4% Gypsum
- 0-5% Limestone
- 1-10% Fly Ash
- 10-30% Volcanic Tuff

04. APPLICATIONS

BLENDING CEMENT TYPE IT

Blended Cement Type IT used in general concrete construction. Can be used for Most Concrete Structures such as foundations, columns, walls, slabs, beams and roads.

BLENDING CEMENT TYPE IT MH

For use in General Concrete Construction requiring a moderate heat of hydration. It has better durability and minimize thermal cracks in concrete. Ideal for foundations, columns, walls, slabs and beams, and structures that requires moderate heat of hydration.

REFER TO THE FOLLOWING DOCUMENTS:

- ASTM for Concrete
- ACI 301 Specification for Structural Concrete
- ACI 318 Building Code Requirement for Structural Concrete
- ACI 305 Hot Weather Concreting

05. PROPERTIES

- Based on sustainable cement technology.
- Grey to light brown in colour.
- Consistent strength meeting all the conformity criteria in PNS 63 Specifications for Blended Cement
- Compatible with admixtures such as air-entraining agents and workability aids
- Trial mixes are recommended to determine the optimum mix

06. CONDITIONS OF USE

- Republic Ternary Blended Cement may be used in the range of traditional nominal mixes as for traditional Portland cement.
- Republic Ternary Blended Cement should not be mixed with additions or other cement types.
- To achieve optimum performance in concrete or other products, it is essential that Republic Ternary Blended Cement is correctly specified and used.
- As with other cements in building work, there is no substitute for good practice and workmanship. It is essential to use the correct materials, proportion and mix the materials properly, add the correct amount of water, compact, cure and protect as appropriate. When using Ternary Blended Cement Type IT and Type IT (MH), it is particularly important to ensure that effective curing is applied.
- Normal hot and cold weather practice should also be followed.
- The final finish quality of this material will depend upon the operative having the required skills and a familiarity with the material and its application methods.
- Republic Cement cannot be held responsible where workmanship has not been carried out in accordance with good practice.
- Ternary Blended Cements are manufactured from natural products, and slight shade variations may occur.
- Ternary Blended cements will also have shade variations from differing manufacturing plants.

07. AVAILABILITY

REPUBLIC TERNARY BLENDED CEMENT are available throughout the Philippines in 40-kg bags. Special arrangement can be made for bulk delivery.

08. TECHNICAL SUPPORT

Further information and specification advice on TERNARY BLENDED CEMENTS, and the full Republic Cements range, can be obtained from the contacts listed below:

 (02) 8885-4596

 360@republiccement.com

 www.republiccement.com

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