

PORTLAND CEMENT

CEMENT AND GROUTING ADDITIVES



Description

PORTLAND CEMENT is a low temperature Sulfate Resisting Cement Type SR, with many applications and capable of setting, hardening and remaining stable in accordance to Australian Standard "AS 3972 – 2010".

Application

PORTLAND CEMENT is versatile in its use and has numerous applications. For example, in-situ concrete, precast concrete, concrete masonry, reinforced cement, mortar and wherever a hard and durable finish is required.

PORTLAND CEMENT is used in concretes and mortars where the possibility of attack by sulfate bearing waters and soils is high. Typical examples for use are where underground waters are present; in marine conditions, sewage treatment works or where sulfates are in the soil, wherever salts occur naturally within the soil or as contamination from industrial wastes.

The mechanism of failure for general purpose cement through sulfate attack is the reaction between dissolved sulfates in the water and the alumina bearing compounds in the cement. The product of this reaction is a crystal growth of greater volume than the original compound. This growth will lead to internal stresses in the structure and general weakening of the concrete.

PORTLAND CEMENT with sulfate resisting properties; has a low content of alumina bearing compounds. This minimizes the material liable to sulfate attack and reduces the possibility of expansive products forming.

Typical Physical Properties

Appearance:	Fine grey powder
Solubility:	Dispersible in water
pH (10% in water):	12.0 – 12.5
Initial set time:	3:00 hours
Final set time:	5:15 hours

Recommended Treatment

The minimum recommended cement content is 355 kg / m³ of concrete with a maximum water/cement ratio of 0.55 for durability and to achieve the best strength.

Please Note: Several factors will dictate the most appropriate concentration rate. Please contact your nearest AMC representative for optimum results.

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