



Cement Australia Off White Cement is a special purpose Portland cement manufactured to comply with the Type HE requirements of Australian Standard AS3972 – General purpose and blended cements.

OFF WHITE CEMENT PROPERTIES

| Property | | AS3972 | Typical Off White |
|---------------------------------|--------------|--------------------------|-------------------|
| Setting Time | Initial | 45 min Typical Off White | 50-90 min |
| | Final | 10 hrs | 2.0-3.0 hrs |
| Soundness | Max | 5mm | < 2mm |
| SO ₃ Content | Max | 3.50% | < 3% |
| ISO Mortar Compressive Strength | 3 Day (min) | 20 MPa | 35-38 MPa |
| | 7 Day (min) | 30 MPa | 42-47 MPa |
| | 28 Day (min) | - | 57-61 MPa |

All testing is conducted in accordance with the relevant Australian Standards test methods.

COMPATIBILITIES

Off White Cement is compatible with:

- Admixtures that comply with **AS 1478 Chemical Admixtures for Concrete.**
- Fly Ashes complying with **AS 3582.1 Supplementary Cementitious Materials for Use with Portland cement: Fly Ash.**
- Ground granulated blast furnace slags complying with **AS3582.2 – Supplementary cementitious materials for use with Portland cement: Slag – ground granulated Iron blast-furnace.**
- Other cements complying with **AS3972 – General purpose and blended cements.**

Note: Off White Cement is compatible with both Fly Ash and blast furnace slag, however, it should be recognised that their incorporation can slow early strength development.

Caution: Off White Cement must not be mixed with high alumina cement as it may result in uncontrollable expansion and short setting times.

APPLICATIONS

Off White Cement can be used as a cementitious binder in a broad range of applications but is particularly suited to projects where aesthetics and/or high early strength are primary considerations, including:

- Bricklaying
- Rendering
- Decorative paver manufacturing
- Swimming pool constructions
- Various exposed aggregate projects

AVAILABILITY

Product available in 20kg bags.

For more information
call **1300 CEMENT (1300 236 368)**
or visit www.cementaustralia.com.au

Mix it with the best.



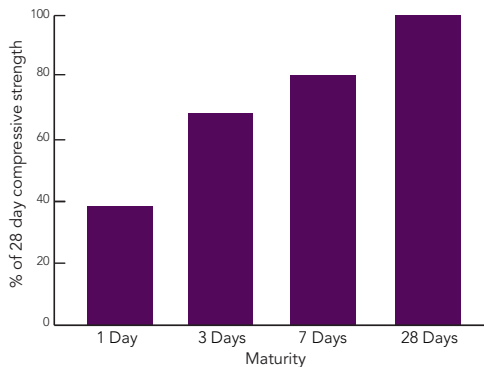
CONCRETE PROPERTIES

Compressive Strength Development:

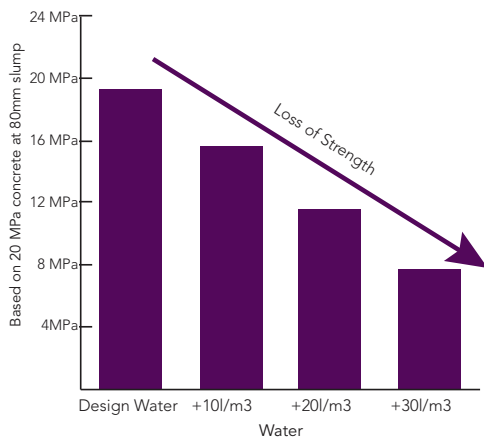
Strength development in Portland cement concrete is affected by a number of factors such as the physical and chemical properties of the cement, water to cement ratio, admixtures, curing and environmental conditions.

The following graph depicts the indicative compressive strength development of Off White Cement concrete over time.

COMPRESSIVE STRENGTH DEVELOPMENT



EFFECT OF EXCESS WATER ADDITION ON CONCRETE COMPRESSIVE STRENGTH



NOTE:

The Off White Cement Material Safety Data Sheet (MSDS) is available at www.cementaustralia.com.au

PRODUCT DISCLAIMER

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Mix Design

The proportioning of constituent materials in a concrete mix is a complicated matter which can be influenced by many factors. We recommend that trials be conducted with the available materials.

Workability

Concrete produced with Type HE cements exhibit a slightly faster set time than concrete produced with Type GP or GB cements, therefore, consideration must be given to preparation, placing methods and ambient conditions.

Mortar/Render Mix Properties

Off White Cement is suitable for use in brick mortars and wall renders.

The following table gives a guide to the proportions (by volume) to be used. (Note: This information is a guide only. Specific advice for your project should be obtained for the materials you are using.)

| Application Ratios (by volme) | Off White Cement | Sand | Lime |
|-------------------------------|------------------|------|------|
| General Purpose Mortar* | 1 | 6 | 1 |
| Wall Render | 1 | 3 | 0 |

Admixtures such as air entrainers, thickening agents or plasticisers can be used but should always be used in accordance with the manufacturer's recommendations.

STORAGE, HANDLING & SAFETY

- The 'shelf life' of Portland cement products is dependent on the storage conditions. It is necessary for bagged Portland cement to be stored in dry conditions and protected from rain, dew or any other moisture source. Bagged cement that has hardened or is lumpy as a result of exposure to moisture should not be used.
- Portland cement products are highly alkaline materials and are significantly affected by exposure to water.