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## CEMENT SET

### FROSTPROOFER & RAPID HARDENER

- CONCENTRATED SET-TIME ACCELERATOR
- EFFECTIVE DOWN TO -8°C
- PREVENTS FROST DAMAGE DURING SETTING PROCESS
- FOR FLOORING SLABS AND FOUNDATION BLOCKS
- CHLORIDE FREE SET ACCELERATOR



#### PALACE CEMENT SET

Is designed for maintaining & accelerating the setting of cement based mortars, renders, screeds and concrete structures. Cement Set also protects against the damaging effects of frost and ice, displaying excellent results as an accelerator, when applied at temperatures below 5°C.

MAINTAIN &  
ACCELERATE

SHORTENS SET TIME AT  
AMBIENT TEMPS

# CEMENT SET

## Frostproofer & Rapid Hardener



### DESCRIPTION

**PALACE CEMENT SET** is a chloride free admixture for the maintaining & accelerating the setting of cement-based, mortars, renders, screeds and concrete structures when mixing & laying at temperatures below 5°C. It will protect against the damaging effects frost and ice can have on recently cast & poured cement based mixes even when temperatures drop to as low as -8°C. **PALACE CEMENT SET** can also be used as a rapid setting accelerator when mixed with cement based mixes producing much quicker setting characteristics, shortening open time and assisting in the use of repair mortars used to seal cracks and leaks where an ultra fast set and early strength development is essential.

### APPLICATION METHOD

All work on site should be carried out in accordance with the codes of practice outlined in BS5626 pt III for protection and use of cement mixtures at low temperatures. Depending on the temperature at the time of application addition of admixture should be made at the rate of 2.5 to 5 litres per 50kg of cement (see table below) introduced into the mix added via the gauging liquid, the volume of which should be adjusted accordingly to accommodate this addition. All poured concrete slabs should be covered with polythene sheeting soon after placement to prevent surface freezing.

### APPLICATION RATES

The following table outlines the likely methods of use and dosages required:

|                      |  |
|----------------------|--|
| <b>APPLICATION</b>   | Leak plugging mortar mix with instant setting properties           |
| <b>MIX DESIGN</b>    | Neat OPC mixed 1:1 with neat cement set                            |
| <b>SETTING TIMES</b> | 2 - 3 minutes to initial set                                       |
| <b>APPLICATION</b>   | Concrete driveway (domestic) paving & pre-cast structures          |
| <b>MIX DESIGN</b>    | 1 part OPC : 2 sand : 4 aggregate                                  |
| <b>SETTING TIMES</b> | 2.5 litres cement set ~ 8 hours<br>5 litres cement set ~ 3 hours   |
| <b>APPLICATION</b>   | Surface granolithic toppings and floor screeds                     |
| <b>MIX DESIGN</b>    | 1 part OPC : 3 parts zone 3 sand                                   |
| <b>SETTING TIMES</b> | 2.5 litres cement set ~ 7 hours<br>5 litres cement set ~ 2.5 hours |

### PRECAUTIONS

**PALACE CEMENT SET** should not be mixed with other additives during the dosing process and must always be applied within the dosing limits shown in the table below.

This additive is not suitable for use with Gypsum plasters or High Alumina Cements. All materials used must be free from ice and the temperature of the mix prior to placing must not be less than 4°C.

### STORAGE AND PACKAGING

**PALACE CEMENT SET** is supplied in 5 litre and 25 litre polythene containers and must be stored in sealed secure conditions away from sources of heat, or exposure to low temperatures and frost.

### HEALTH AND SAFETY

**Causes serious eye irritation.** Avoid eye contact. Wear eye and face protection. Keep out of reach of children. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.



**WARNING**

A complete PALACE material safety data sheet is available on request or online at [www.palacechemicals.co.uk](http://www.palacechemicals.co.uk)

### QUALITY AND ENVIRONMENT

All Palace Chemicals products are manufactured under a BSI accredited ISO 9001:2015 Quality Management System, along with an ISO 14001 Environmental Management system continually working to reduce our carbon footprint.

### TECHNICAL ADVISORY SERVICE

Should more specific technical information be required, contact the Palace Technical helpline on: **0151 486 6101**. For a Technical Specification and quantity requirements, visit our 'TilingSpecifier' on the Palace website at: <http://www.palacechemicals.co.uk>

### DISCLAIMER

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. Our products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from the application or use of our products because we have no direct or control over where and how our products are stored and used. All products are sold and guaranteed subject to our terms and conditions of sale, copies of which may be obtained on request.



EN ISO 45001



OHS 596309

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EMS 85788

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