

# DUROFAST



## Quick setting cement



### ■ PROPERTIES

Ultra fast setting cement that hardens in a few minutes time.

From the first seconds of mixing with water, it develops early mechanical strengths. Its open (working) time is 1-2 minutes, at 23°C, and its curing time is 3 minutes to hard set. Suitable for mixing with sand-gravel and regular Portland cement in various proportions so as to influence and regulate the setting time, allowing for high early strengths without shrinkage, while increasing the watertight properties of the hardened product.

Depending on the manufacturing requirements, it minimizes the setting time, significantly reducing the risk of frost damage.

Classified PCC R3 as a concrete repair product, per EN 1504-3.

### ■ ADVANTAGES

- Ready to use by mixing only with water.

- It has high adhesion to the substrate and excellent workability.
- Contains corrosion inhibitor.
- Does not shrink or crack.
- Excellent strength and water tightness.
- Resistant to frost, moisture, carbonation, and corrosion.
- Does not contain chlorides or corrosive ingredients.
- Can accept loads immediately.
- It cures underwater without losing its strength.
- Ideal for applications where instantaneous termination of water penetration is required.

### ■ APPLICATIONS

By just adding water, use DUROFAST for immediate plugging of surface water leaks in tanks, wells, pipes, gutters and cement pipes.

- Ideal for securing posts for railing and wire fencing, store signs etc.

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• It rapidly secures plumbing and electrical parts during installations.  
 Suitable for interior and exterior use.

■ **USE**

**1. Surface preparation**

The substrate must be sound, clean and soaked thoroughly.

**2. Application**

**For leaks**, empty DUROFAST into a clean container with water, at a ratio of 30% water by the weight of the cement, always depending on the application. Quickly mix to a clay-like consistency, and press firmly to the application point for about 1 minute, until it hardens. When trying for an instantaneous seal, it is not recommended to mix a larger amount than what can be used in 1.5 minutes.

**For seals, repairs or to create fast setting cement mortars**, the following indicative table specifies the setting acceleration of the cement mortar, as well as their corresponding mechanical strengths.

■ **CONSUMPTION**

Depending on the application. Approximately 1.5kg DUROFAST for the preparation of 1lt of hardened mix.

■ **STORAGE**

Store in the factory sealed packages, in dry and shaded places -protected from moisture and frost, for 8 months from production date.

■ **SAFETY DIRECTIONS**

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Safety Data Sheet.

■ **PACKAGING**

Carton box with 12 pcs of 1kg each one  
 4kg container (4 bags of 1kg each one)  
 Paper bag of 20kg on 1.200kg pallet

TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 50% R.H.)	
■ <b>Form - Color</b>	Fast setting cement mortar - Gray
■ <b>Bulk density of dry mortar</b>	1.15±0.05kg/lt
■ <b>Water requirement</b>	0.3lt water in 1kg mortar
■ <b>Application temperature</b>	From +5°C to +30°C
■ <b>Pot life</b>	2 minutes at maximum
■ <b>Chloride ion content, per EN 1015-17</b>	≤ 0.05%

PRODUCT PERFORMANCES	
■ <b>Resistance to flexion, per EN 12190, in:</b>	
• 28 days	≥ 10.00 N/mm <sup>2</sup>
■ <b>Compression resistance , per EN 12190, to:</b>	
• 1 hour	≥ 7.00 N/mm <sup>2</sup>
• 24 hours	≥ 16.00 N/mm <sup>2</sup>
• 28 days	≥ 30.00 N/mm <sup>2</sup>
■ <b>Adhesion to concrete per EN 1542</b>	≥ 1,70 N/mm <sup>2</sup>
■ <b>Elastic modulus EN 13412</b>	≥ 15 GPa
■ <b>Carbonation resistance per EN 13295</b>	Yes
■ <b>Thermal compatibility expressed as adhesion to concrete, per EN 13687, after:</b>	
• 50 freeze-thaw cycles	≥ 1.50 N/mm <sup>2</sup>
• 30 storm cycles	
• 30 dry heat cycles	
■ <b>Capillary water absorption w per EN 13057</b>	w ≤ 0.50kg.m <sup>-2</sup> .h <sup>-0.5</sup>
■ <b>Reaction to fire</b>	Class A1

Where 1 N/mm<sup>2</sup>=1MPa

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	CURE & HARDENING TIME	MIXING RATIOS		USES	COMPRESSIVE STRENGTH N/mm <sup>2</sup>	
CEMENTITIOUS PASTES	3'		DUROFAST WATER	1kg 0.3lt	Waterproofing sealing mortar for tanks, wells etc.	1 hour: 8.0 24 hours: 17.0 28 days: 30.0
	15'		DUROFAST SAND WATER	5kg 5kg 3-4lt	Sealing and repair mortar for plaster walls, floors, cement screeds etc.	6 hours: 6.0 24 hours: 15.0 28 days: 38.0
CEMENT MORTARS	45'		DUROFAST PORTLAND SAND WATER	20kg 25kg 80kg 15-20lt	Repair mortar for plaster walls, floors, cement screeds etc.	6 hours: 5.0 24 hours: 14.0 28 days: 40.0
	30'		DUROFAST PORTLAND GRAVEL SAND WATER	40kg 25kg 150kg 120kg 35-45lt	Cement screeds, non-reinforced concrete, non load bearing walls etc	6 hours: 3.0 24 hours: 16.0 28 days: 45.0

### ■ NOTES

It is recommended to try with a small quantity of 1-2kg to achieve the appropriate mixing ratio, before the final use. The addition of the acrylic emulsion, D-20 or DUROSTOP of DUROSTICK in the mixing water, at a ratio of 1: 2 up to 1: 5, increases its flexibility, water tightness and abrasion resistance. However, the addition slightly changes the cure time. Do not mix the product with additional water once it starts to set, because it will lose its mechanical strengths.

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