

## HP-ECOFIX High Performance Concrete

### 1. Identification

#### 1.1 Introduction

Carlton HP-ECOFIX is a factory produced 40N High Performance Concrete consisting of dried sands, cement and other additives.

Carlton HP-ECOFIX is available in 20Kg plastic bags that are showerproof and recyclable.

#### 1.2 Authority

Carlton HP-ECOFIX is manufactured under a registered ISO 9001 Quality System.

The individual components of this product comply with the requirements of BS EN 206-1.

Materials used comply with the following standards:

Cement	BS EN 197-1
Aggregate	BS EN 12620
Admixtures	BS EN 934-2

Admixtures do not contain calcium chlorides.

Water added on site should be clean and free from impurities.

### 2. Description

#### 2.1 Manufacture

All raw materials and end products are subject to regular quality control procedures and testing.

Dried sand and other materials are weighed and mixed under computer control with rigorous quality control procedures.

#### 2.2 Compressive Strength Class

Carlton HP-ECOFIX is supplied in strength class C32/40 complying with BS EN 206-1.

Characteristic Strength N/mm <sup>2</sup>	
Cylinder	32
Cube	40
Strength	Class C32/40

### 3. Performance

Carlton HP-ECOFIX is specially designed to give excellent workability when wet, and to harden to a durable finish.

### 4. Mixing Instructions

- Carlton HP-ECOFIX can be mixed by hand, or a traditional concrete mixer.
- Add approximately 2 to 2.8 Litres of clean water per 20Kg bag. Too much water reduces strength, durability and bond and can cause cracking. Over mixing should be avoided.
- **Do not** add any additional materials. All components required are within the mix.
- **Do not** re-temper or add further water after initial set.
- Make sure the concrete is fully compacted before finishing.

### 5. Conditions of Use

Carlton HP-ECOFIX is fast setting with high early strength and is suitable for the following applications:

- Structural concrete
- Steps and paths
- Concrete bases, including greenhouses and sheds
- General repair or maintenance projects
- Internal or external application

Carlton HP-ECOFIX should be used within 30 minutes of adding water.

Newly finished concrete should be protected from drying out by covering with polythene sheeting or wet hessian sacking.

Recommended temperature range for use is 5 °C to 30 °C.

Standard site practice to the relevant British and European Standards should always apply. Carlton Manufacturing cannot be held responsible where workmanship has not been carried out in accordance with good practice.

### 6. Prices and Conditions of Sale

Our Sales Office will be pleased to provide quotations for specific projects. All quotations are subject to our Conditions of Sale, a copy of which is available on request.

### 7. Health & Safety

For health & safety information – see Material Safety Datasheet.

### 8. Technical Services

#### 8.1 Advisory Service

Our Technical Advisory Service is available to give expert advice on the specification or use of Carlton HP-ECOFIX.