



# Floorplate

## Industrial Shake on Flooring

### USES

**FLOORPLATE** is used for areas of general industrial purpose, warehouses, areas of heavy wear and those exposed to wet conditions.

### DESCRIPTION

**FLOORPLATE** is a hard, non-dusting, specially selected graded synthetic refractory oxide aggregate. The purpose is to case harden by impregnation, forming the wearing course directly as an integral part of the base concrete, eliminating any risk of separation, cracking, crazing or dusting. By case hardening the wearing surface with Floorplate, savings in overall slab costs may be achieved due to the ever rising cost of cement. Early age power ground slabs, or alternatively high strength power trowel led finishes are normally specified at not less than 20 N/mm<sup>2</sup> concrete strength, adding to the overall cost. In this instance the final result is rarely satisfactory with an indifferent surface appearance.

### ADVANTAGES

<b>Case Hardened Surface</b>	heavy wear resistant
<b>Durable</b>	long lasting floor finish
<b>Non-dusting</b>	easy clean, dust free surface
<b>Water Resistant</b>	withstands exposed wet conditions
<b>Economic</b>	savings on overall slab costs

### PHYSICAL PROPERTIES

**Hardness Factor** MOHS 8-9

Floorplate aggregates are supplied in the following graded size:

**Mesh Size** 1.9 to 0.2mm  $\pm$  5%  
**Apparent Bulk** 3.4 approximately

### TEST DATA

Extensive tests have been conducted by Messrs Charles Andrews & Sons, independent Consulting Engineers of Manchester, England in accordance with BS 368/1956. Details available upon request.



### TEMPERATURE

Not applicable

### INSTRUCTIONS FOR USE

#### CURING

**FLOORPLATE** floors are best suited to damp curing under a polythene sheet kept on the finish for a minimum period of 7 days.

#### PROTECTIVE COATING

Optimum curing as well as a permanent seal will be provided by Conren CS2 Cure & Seal when applied by spray or roller application at the rate of 6m<sup>2</sup>/ltr. By Comparison, rosin dust, as a result of the membrane breakdown, is a common problem with normal curing agents after a period of 1-3 months. Should the surface be damp cured under polythene Conren Lapidolith may be used in a three coat treatment. Allow a minimum period of 14 days after the removal of the polythene sheets before treatment. Lapidolith chemically hardens, dustproofs and preserves the cementitious finish without degradation or alteration of the appearance, as well as providing chemical resistance.

#### MIXING AND APPLICATION

**FLOORPLATE** system utilise a 2:1 mix ration of Floorplate to ordinary Portland cement by weight.

#### Floorplate "Dry Mix" Impregnation Monolithic Construction

Construction and expansion joints (often the first point of weakness) can easily be armoured with the Floorplate system by simply trowelling back the edges and inserting a pre-wetted Floorplate mix. This not only ensures a proper edge detail but also facilitates form work release.

1. The Floorplate "Dry Mix" should be mixed directly after concrete placement. Often pre-dampening of the Floorplate aggregate facilitates uniform blending.

## TECHNICAL SERVICE & QUALITY ASSURANCE

All information provided in this leaflet is based on results obtained from our own experience and test and is given in good faith. The user will be deemed to have satisfied himself independently of the suitability of Conren's products for his own particular purpose. We guarantee to replace, free of charge, any goods supplied by us which are proved to our satisfaction defective, but, as the application of these materials is necessarily beyond our control, we will not accept responsibility for any damage or loss arising wholly or in part from these materials. Except as herein provided, any express or implied condition, warranty, statement or representation, statutory or otherwise as to the quality of the goods is expressly excluded.

- Following preparation of the "Dry Mix", it may be necessary to fit Conren Contraction Joint Inserts. These should be positioned at pre-determined intervals achieving bay sizes of approximately 30-40m<sup>2</sup>.
- Soon after concrete placement, when water sheen has dispersed, dry dress either two thirds or the total amount of "Dry Mix" evenly over the floor by hand.
- When the "Dry Mix" has become wetted and when the concrete is sufficiently set to withstand foot traffic and the weight of a powerfloat (a slight impression should be noted), powerfloat the "Dry Mix" into the top surface rectifying any surface undulations, impregnating evenly the Floorplate mixture- do not overwork.
- Repeat dry dress for any remaining Floorplate mixture and powerfloat as above.
- All edges should be trowelled smooth, alternatively trowelled back and armoured with additional pre-wetted Floorplate Mix.
- Approximately one hour later allowing for hydration and setting, (dependant upon local site conditions and climate) steel trowel or machine power trowel. Repeat again when concrete has further stiffened to produce a smooth surface, closing any minor pinholes or surface trowel chatter marks.

### SPECIFICATION OF FLOORPLATE SYSTEM

Project Type	Spec. Floorplate	Quantities for est. over 100m <sup>2</sup> no. of bags
Light industrial/warehouse	2 kg/m <sup>2</sup>	8 x 25kg FP 4 x 25kg OPC
Medium industrial factories/ Warehouse, loading areas, ramps etc	3-5 kg/m <sup>2</sup>	12 x 25kg FP 6 x 25kg OPC
Medium/ heavy industrial areas (i.e. aircraft hangers, machine Shops, garages, bottling plants)	5 kg/m <sup>2</sup>	20 x 25kg FP 10 x 25kg OPC

Mix ratio Floorplate to cement = 2:1

Sealing: Floorplate can be sealed with Conren CS2 cure and Seal or Lapidolith. Please consult Technical Services Department for details.

### COVERAGE AND PACK SIZES

FLOORPLATE aggregates are supplied in 25kg polypropylene bags, in a ready for use condition. Fresh OPC for addition to the Floorplate specification is provided by the customer, due to the restricted shelf life limitations of cement.

### PRECAUTIONS

FLOORPLATE is a non-flammable product. There are no special precautions when using Floorplate. Normal cleanliness when working with cement products should be observed and any skin contamination should be removed with soap and water.

### DISPOSAL

All tools and equipment should be cleaned with water.

### STORAGE

FLOORPLATE aggregates may be stored indefinitely in manufacturer's undamaged sealed bags under dry conditions.

### SPECIFICATION

Dry shake industrial flooring shall be Conren Floorplate.

All products to be applied in accordance with Conren's written instructions.

**Conren Limited**  
**Ditton Road**  
**Widnes**  
**Cheshire**  
**WA8 0PG**  
**UK**

**Tel: +44 (0) 151 422 3999**  
**Fax: + 44 (0) 151 424 5053**  
**e-mail: info@conren.com**  
**web: www.conren.com**