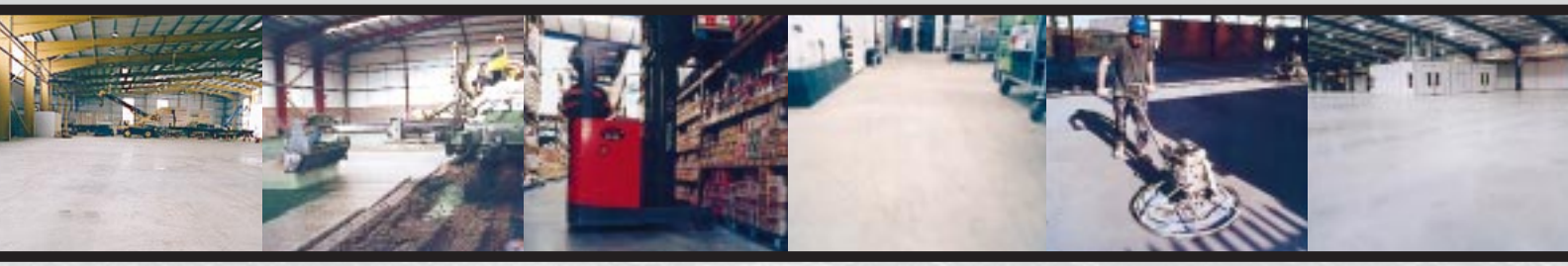
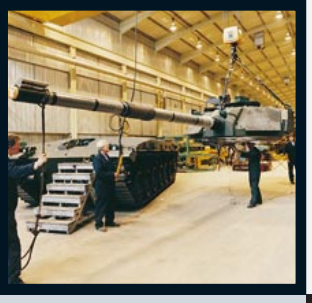
Don Construction Products Ltd.



Dry Shakes Flooring Surface Treatments

Dry Shake, Super Durable Floor Topping Systems



Dry Shake Topping System

DRY SHAKE TOPPING SYSTEMS

A Brief History of Diamond Betonac

Diamond Betonac, an extremely hard non-oxidising metallic aggregate, was first introduced to the construction industry in the early part of the twentieth century to produce what was then known as 'steel concrete'.

Meeting the needs of applications throughout industry, Diamond Betonac became synonymous, over the years, with high quality, abrasion resistant and durable flooring installations.

It was regularly used in such areas as shipyards, foundries, power stations and even on essential roadways where reliability was of paramount importance.

Early converts included Levi, Ford, Great Western Railways, Sainsburys, Metropolitan Railways and Younger & Co.

Its popularity led to the development in the early 1950's of the first recorded 'dry shake system'. This comprised a slightly finer grade of Betonac aggregate mixed with OPC which was broadcast over the levelled and tamped surface of the concrete slab then hand trowelled into the wet surface.

The result was a concrete surface with many of the characteristics of the Diamond Betonac screeds but achieved more quickly and at a considerable saving in cost.

Concrete floors can provide a tough and durable base for many applications. However, the demands of certain industrial and commercial environments can lead to their rapid deterioration. Repair is often expensive - utilising specialist materials - and brings only short-term benefits. In many cases, the true cost must also take into account the value of lost productivity.

Dry shake systems can help to significantly increase the life of a concrete floor by preventing the onset of damage. In fact, dry shake toppings from Don Construction Products can effect a 40-fold improvement in the abrasion resistance of concrete floors.

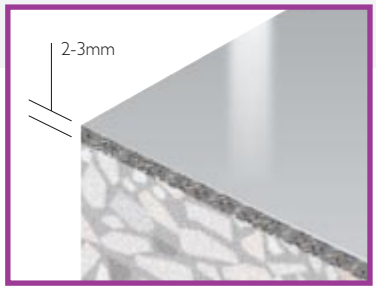
The first dry shake product to be awarded a 25-year BBA certificate, TIBMIX has been used extensively worldwide. With over 40 years experience and knowledge of dry shake production and application, DCP has consistently provided durable surfaces for the most arduous of working conditions.

A series of surface treatments complements the company's range of dry shake products. They further enhance the performance of the toppings by providing increased resistance to penetration by oil, water and a wide range of chemicals. In this way, they help to ensure a problem and maintenance free floor for many years to come.

WEAR CHARACTERISTICS

Flooring Surface	Abrasion Wear Depth	Wear resistance Factor *
40 N/mm² Concrete	0.40 mm	1
Synthetic Aggregate	0.05 mm	8
Ferro Alloy	0.02 mm	20
Monoshake	0.01 mm	40
Tibmix	0.01 mm	40
Diamond Betonac	less than 0.01 mm	No measurable wear

* All surfaces tested to BS 8204

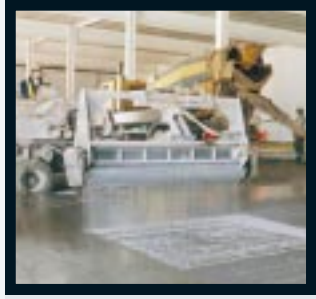


The dry shake topping forms a layer 2-3mm thick which dries with the slab to create a monolithic floor.

DCP DRY SHAKE FEATURES & BENEFITS

Cost Effective	*A high performance product designed to require minimal day-to-day maintenance throughout its extensive wear life*
Fast Track	*Versatile - easy to apply by hand or machine - particularly suitable for fast track slab construction using the latest computer-controlled finishing equipment*
Durable	*Outstanding abrasion and impact resistance providing greater durability in areas subject to heavy industrial wear and tear*
Low Maintenance	*Dense, self-coloured finish that is easy to clean and requires no routine over-coating. When fully cured and treated with Setcrete 6, the surface gives enhanced resistance to penetration by oil, water and a range of chemicals*
Slip Resistant	*The specially graded aggregates used in Tibmix and Monoshake give outstanding slip-resistance to the finished floor, providing a safe working surface for the lifetime of the installation*
25 Year BBA Specification Tibmix only	*BBA 98/3536*
Anti Static Tibmix only	*Once fully dry and cured, the finished surface dissipates static electricity preventing build up in accordance with the requirements of BS 2080, Table 2, Industrial Floors*

BBA BRITISH BOARD OF AGRÉMENT
CERTIFICATE No. 98/3536



Tibmix

TIBMIX

Tibmix is a pre-blended mix of specially graded Betonac aggregate and OPC designed to be applied to freshly laid concrete floors to substantially increase the durability of the base concrete.

A non-oxidising, chemically inert, metallic 'dry-shake', **Tibmix** is applied to and combines with the base concrete to form a toughened surface ideal for most industrial purposes.

Equally suitable for hand or machine application using the latest laser-guided computer controlled equipment, **Tibmix** has been successfully used for over 40 years.

This extensive track record makes **Tibmix** the UK's foremost dry shake topping.

Tibmix & Setcrete 6

7,800m² laid in just 3 days.

Smooth and hard-wearing ideal for trafficable warehouse and distribution depots.

Monoshake

MONOSHAKE

Monoshake

16,000m² utilised as a fibre suppressant in this new warehouse and distribution depot.

Monoshake is a pre-blended mix of specially graded Quartz aggregates, OPC and special additives designed to be applied to freshly laid concrete floors to combine with the slab and create a monolithic surface.

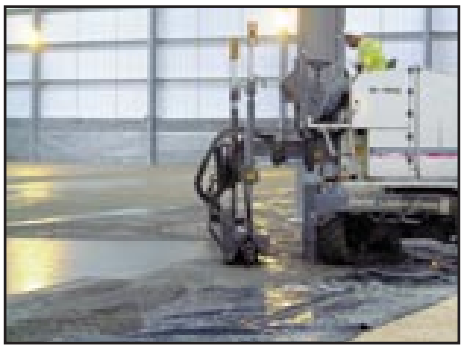
Primarily used as a dry shake topping in a wide range of industrial applications, **Monoshake** can also be used as a topping to suppress steel fibres used in concrete floors.

When trowelled into freshly laid concrete, **Monoshake** produces a dense, tough, abrasion resistant surface that meets the demands of the most arduous conditions found in today's industrial environments.

From **7.00** am...

1. *Roof in situ, suitably prepared ground ready to receive concrete sub floor.*

2. *Place base concrete to provide a suitable structural slab, in accordance with standard flooring practice.*



3. *Achieve rapid placement and finishing of the concrete base with laser screed equipment, ideal for fast track projects.*

4. *Remove surface bleed water by manual methods as necessary.*

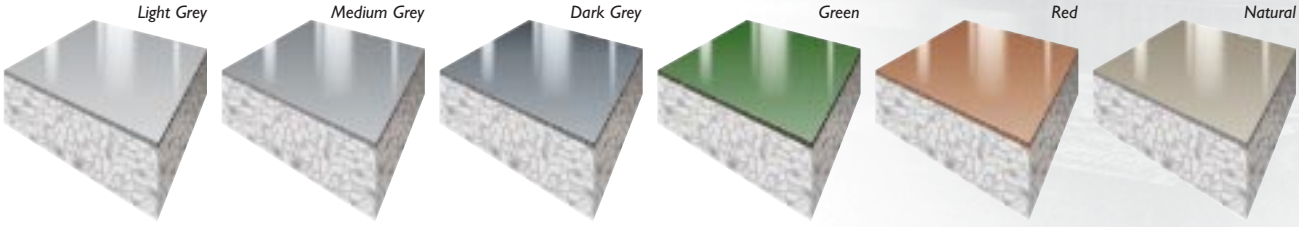
5. *Apply dry shake by means of an automatic spreader to achieve complete control over application rate.*

6. *Finish by either hand or powered trowel.*

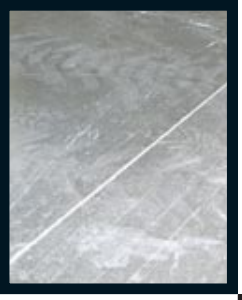
...to **3.00** pm

2000m² – 3000m² per day

DRY SHAKE COLOUR RANGE



Available in five standard colours plus natural with other colours available on request.



Surface Treatments

SURFACE TREATMENTS

Typical treatments include

- Harden
- Seal
- Cure
- Dustproof

To complement DCP dry shake toppings, a range of surface treatments designed to enhance further the performance of the finished floor is available, each one offering inherent benefits.

Setcrete 6

Curing membrane and sealer.

A clear resin based solution designed to impregnate concrete surfaces combining the benefits of curing aid, sealer, dustproofer and surface hardener.

Setcrete 8

Curing aid and dustproofer.

A silicate based solution, when applied to fresh concrete / renders / surfaces, reduces the evaporation rate thus helping to develop maximum strength, durability and surface hardness.

Quickmast 173

Seal and surface hardener.

An epoxy resin floor seal and surface hardener for new and old concrete and sand/cement screeds that impregnates the surface, effectively increasing resistance to abrasion, dusting and the ingress of a wide range of chemicals.

Quickmast 104

Flexible epoxy adhesive and sealant.

A clear epoxy resin adhesive and sealant with high strength and flexural properties, particularly suitable for saw cut joints or sealing cracks in concrete where subsequent movement may occur.

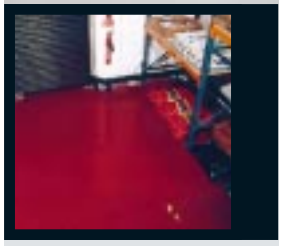
SATISFIED CUSTOMERS

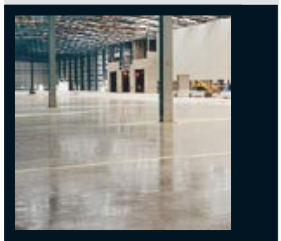
DCP dry shake systems have been installed worldwide, satisfied clients include:

Sainsburys
Ferrari
Lotus
Kins Wood Eggs
Post Office Holdings
Co-operative
BBW Cash & Carry
Bestway Group
British Airways
Carlsberg Tetley
Booker Distribution
Kronospan
PDP Engineering
Commonwealth Stadium
Bombardier Transportation
Lever Bros
Rolls Royce
Fellowes
Gazeley Properties
Kingspark Prologis

TYPICAL APPLICATION / PRODUCT SELECTOR

Diamond Betonac	TIBMIX / MONOSHAKE	
Heavy Engineering	Warehouses	Production / Factory Floors
Steelworks	Workshops	Transportation Facilities
Heavy Industry	Mail / Sorting Offices	Food Factories
Hangers	Cold Stores	Showrooms
	Retail	





PRODUCT PORTFOLIO

Don Construction Products

GROUTS

CHEMICAL FIXINGS

ADHESIVES & REPAIR COMPOUNDS

RESIN FLOORING

STRUCTURAL PROTECTION

WATERPROOFING

DCP

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www.donconstruction.co.uk

CONCRETE SOCIETY

BALL

ISO 9001 SQS