



Premix solutions

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Premix solutions is a range of ready-mixed concretes specially developed in conjunction with Sika for the civil engineering and contracting professional.

There are nine specialist concretes in the range, each with its own unique qualities and characteristics.

All backed by the strength and durability of the Hanson **Premix** brand, with a reputation built on over 50 years of quality and service.

Whether you're faced with difficult ground conditions, difficult applications or difficult access, **Premix** solutions has the answer.

Premix
– *the* choice in concrete

duracrete

Premix duracrete is a durable, high-performance concrete which can achieve strengths in excess of 100 N/mm².

The use of microsilica provides a dense structure and gives excellent chemical and abrasion resistance, service life can be extended up to six times longer than conventional concrete, providing excellent value for money.

Premix duracrete develops its strength very quickly and allows early use, just one to two days after placing. High abrasion resistance means it can withstand heavy trafficking such as loading bays, while impact resistance and durability are also greater than conventional concrete, making it ideal for heavy duty industrial use. In addition, the higher strengths obtained means thinner sections can be used.

Premix duracrete is ideal for use in varied heavy industrial applications including warehouse floors, service yards, scrap yards, waste transfer stations, bund walls and waste recycling centres.

To attain its full potential it is essential that this concrete is cured correctly. Please contact our technical department for advice on handling and placing

fibrecrete

Premix fibrecrete is a polypropylene fibre-reinforced concrete which offers benefits in both the fresh and hardened state.

When fresh, both bleed and plastic cracking are considerably reduced. The effect on early age tensile strength during hardening is also beneficial and, after hardening, the fibres improve the toughness and general durability.

The required dosage rate introduces millions of fibres per cubic metre. The performance of the fibre is naturally related to fibre surface area and dosage.

Premix fibrecrete can be compacted with normal vibration equipment. Similarly no special precautions are required for power floating, trowelling, spraying or pumping.

One of its main applications is in pavement and floor slabs where crack control and durability are of particular importance.

Premix fibrecrete provides an economic alternative to crack control steel, subject to proper design considerations. The use of fibres compared to A142 mesh in a 150mm slab will result in cost savings. Fire resistance is also enhanced.

Note: Polypropylene fibres are not a substitute for structural steel reinforcement. Steel fibres are also available, please contact our technical department.



easyfill

Premix easyfill is a highly air-entrained concrete developed for trench reinstatement and void fill applications in various environments.

It's a lightweight material produced by incorporating a powerful concentrated air entraining admixture into a base concrete or mortar. The material is used for:

	Density kg/m ³
Trench reinstatement	1800-2000
Void fill	1600-1800

Note: Easyfill is not intended as a wearing surface.

Premix easyfill has a number of benefits. It is thermally insulating, sound absorbing and fire retardant. It is also pumpable, self-levelling, easily re-excavated, free flowing, but with high stability.

The mix is available in a range of strengths for a variety of applications.

easyfoam

Premix easyfoam is a finely graded mortar foamed to provide a low density material ideal for trench reinstatement, including void fill, insulation, cavity walls and non-structural applications.

A lightweight material, it is produced by incorporating a pre-formed foam into a base mix of cement paste or mortar. It is used principally for:

	Density kg/m ³
Trench reinstatement	1800-1900
Void fill	1200-1600

Premix easyfoam has a number of benefits. It is thermally insulating, sound absorbing and fire retardant. It is also pumpable, self-levelling, easily re-excavated, free flowing and non-bleed with low shrinkage and high stability.

The mix is available in a range of strengths for a variety of applications.

Note: Foamed concrete is not a wearing surface and you should contact our technical department if this is required.

Relationship of strength/density on a typical 3:1 (sand:cement) foamed mortar

Density kg/m ³	Strength N/mm ²
400	1.0
600	1.5
800	2.0
1000	3.5
1200	5.0
1400	7.0
1600	9.0
1800	12.5

easyflow

Premix easyflow helps to speed up the placement and finishing of concrete slabs with reduced labour and equipment, resulting in significant cost savings.

The material behaves like a liquid rather than a concrete and after being discharged direct

into the slab from a single point, it self-levels with no vibration required.

Two passes with a dapple bar will achieve a comparable finish to a power-floated slab. The first deep dapple removes trapped air and the second surface dapple ensures a glass-smooth finish, which can be tiled or carpeted without additional screed.

Premix easyflow is suitable for internal or external slabs of up to 36m² and exceeds BS8500 design criteria for RC40.

We also supply flowing concrete for trenches, screed and other applications – please ask for details.

fastslab

Premix fastslab is a self-flowing, self-levelling mix with the same properties as easyflow, but contains a special anti-shrinkage agent and is recommended for slabs over 36m².

fasttrack

Premix fasttrack is a range of high early-strength concretes which speed up construction by allowing quick release of formwork. It can save time, energy and money by:

- ensuring production deadlines can be met with confidence.
- reducing the requirement for external heating.
- reducing production time and increasing productivity.

Premix fasttrack has been developed for fast-track construction, thinner sections, carriageway replacement, airport hard standings, warehouses and precast structures.

It uses **Sikament Rapid Technology** products which can be added at the batching plant or on site.

It is important that the temperature of the concrete is maintained prior to and after placement. Hot water or steam may be used. To ensure maximum strength gain, insulated forms coupled with thermal blankets may be appropriate in extreme cases.

We recommend the use of a temperature matched curing system to ensure the concrete structure has achieved the required strength. Please contact our technical department for further details.

protect

Premix protect extends the life of structures and buildings by protecting the reinforcement within the concrete with a special corrosion inhibitor.

It uses the latest Sika technology within the mix design to extend the life of structures and buildings. Using a special multifunctional corrosion inhibitor, the reinforcement within the concrete benefits from an adsorbed protective film which delays the corrosion process.

Premix – the choice in concrete



Premix protect is particularly suited to bridges, high rise buildings, car parks, marine structures and coastal areas.

Service life is extended and maintenance reduced.

watertight

Premix watertight is a specially designed concrete which includes a pore blocking agent and a powerful new generation superplasticiser to provide extremely low permeability. The product is backed by a British Board of Agrément certificate.

Premix watertight uses the proven Sika watertight system, which has been upgraded to further enhance placing, performance and durability. It also gives increased resistance to chemical attack and protection to the reinforcement.

The concrete is easy to place with minimal compaction, and does not require costly and unreliable membranes.

Premix watertight is ideal for:

Keeping water in	Keeping water out
Reservoir and tanks	Basements (all grades and uses)
Waste water plants	Car parks
Dams	Underground stations and subways
Secondary containment bunds	Utility vaults
Swimming pools	Marine structures
Sewers and pipelines	Tunnels

It is also available as a self-placing mix – please ask for details.

In addition, a range of detailed joint solutions are available from our partner Sika Ltd and include the following:-

Sikaswell 2010

A profile which swells in contact with water to seal the joint

Sikaswell S

A gun applied version of the above

Sika Injectoflex

A hose system which is re-injectable for lifetime maintenance

Sikadur Combiflex

A solution for expansion joints and other applications

All the products in the Premix solutions range must be handled, placed and cured properly to maximise performance. For best results, only trained concrete placers should be used. For further advice, please contact our technical department on 01454 316000.

Contact your local
Premix sales
office

Scotland

Tel: **01786 450200**

Northern England

Tel: **0845 120 6293**

North Wales/north west England

Tel: **0845 602 1010**

East and west midlands and east anglia

Tel: **0845 845 6688**

Greater London

Tel: **0845 120 5750**

South east/home counties

Tel: **0845 758 5646/5634**

South Wales

Tel: **0800 393 057**

Cornwall/Devon/Dorset

Tel: **0845 120 6312**

Oxon/Wilts/Glos/Bristol/

Somerset/west Berks/

west Hants

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