

SPRAYED CONCRETE (SPRAYCRETE)

Reader Sprayed Concrete's (Spraycrete) are blends of quality assured ingredients including Portland Cement (to BS EN 197-1), microsilica, crushed and graded fillers up to 2.8mm and additives as appropriate.

THE PRODUCTS

Spraycrete comes in several categories with strengths ranging from 30N/mm² to 50N/mm²:

- **Standard Spraycrete**
- **Accelerated Spraycrete**
(3 different levels of accelerator)
- **Incorporating polypropylene or metal fibres**
- **Wet or dry sprayed**

PREPARATION

Prior to spraying, the receiving surface should be thoroughly clean and dust free. High pressure jet washing to remove any unstable material is recommended followed by grit blasting or prescabbling.

Ideally, any concrete substrate should be wetted prior to application, or a suitable concrete primer should be used for more permeable concrete substrates.

FINISHING & CURING

Spraycrete should be profiled as soon as possible after application.

In line with all good concreting practices, to achieve the maximum performance of the Spraycrete product, a system of curing should be carried out to ensure the sprayed concrete remains in a damp condition for as long as possible.

Covering with hessian or polythene sheeting is recommended, although proprietary curing compounds can be used.

Direct exposure to drying winds or sun should be avoided.

PACKAGING & STORAGE

Spraycrete products are supplied in 20Kg plastic bags, palletised and shrink wrapped.

The material should be stored clear of the ground, sheeted and preferably under cover. The pallets should not be stacked more than two high with the material being used on a first in, first out basis.

The shelf life of all products is 8 weeks if supplied in paper sacks and stored correctly, and 12 months if stored in plastic sacks.

HEALTH & SAFETY

Cement powder when mixed with water releases Alkali which may cause skin and eye irritation. We therefore advise the use of barrier creams, gloves and protective eyewear as a precaution when using these products.

A further detailed Health and Safety Data Sheet for this product is available on request.

QUALITY

All Reader products are tested in accordance with specific procedures to ensure compliance to specification prior to despatch and are subject to the controls of a BS EN ISO 9001 : 2008 approved quality system.

WATER

Spraycrete should be mixed using potable water which complies with BS EN 1008, as for conventional concrete and mortar.



APPLICATIONS

- **Ground stabilisation**
- **Rail tunnel repairs**
- **Dock and sea defence work**
- **Rock face stabilisation**
- **Water retaining structures**
- **Concrete & masonry repairs**
- **Architectural profiling**
- **Highways Structures**

SPRAY CONCRETE (SPRAYCRETE)

Typical Performances (when mixed under laboratory conditions @ 20°C)

Product	Typical compressive strengths (N/mm ²)				Tonnes To Make 1m ³	Description
	1 Day	3 Days	7 Days	28 Days		

Dry Sprayed

General Purpose Spraycrete						
SPRAYCRETE 30	10	21	29	38	2.2 - 2.7	A range of dry spray applied materials suitable for general repair, refurbishment or construction
SPRAYCRETE 40	12	27	35	47	2.2 - 2.7	
SPRAYCRETE 50	15	36	44	59	2.2 - 2.7	
Accelerated Spraycrete						
SPRAYCRETE 30A	10	21	29	38	2.2 - 2.7	Accelerated, dry sprayed applied materials, designed for use where a quicker set is required
SPRAYCRETE 40A	12	27	35	47	2.2 - 2.7	
SPRAYCRETE 50A	15	36	44	59	2.2 - 2.7	
Double Accelerated Spraycrete						
SPRAYCRETE 30AA	15	21	29	38	2.2 - 2.7	Super Accelerated, dry sprayed applied materials, designed for use where a high early strength and very rapid set is required
SPRAYCRETE 40AA	20	27	35	47	2.2 - 2.7	
SPRAYCRETE 50AA	25	36	44	59	2.2 - 2.7	
Polypropylene Fibres						
SPRAYCRETE 40F	12	27	35	47	2.2 - 2.7	Polypropylene fibre modified range of dry spray applied materials
SPRAYCRETE 40AF	12	27	35	47	2.2 - 2.7	
SPRAYCRETE 4AAF	20	27	35	47	2.2 - 2.7	
Stainless Steel / Metal Fibres						
SPRAYCRETE 40MF	12	27	35	47	2.2 - 2.7	Steel or Stainless Steel fibre modified range of dry spray applied materials
SPRAYCRETE 40AMF	12	27	35	47	2.2 - 2.7	
SPRAYCRETE 40AAMF	20	27	35	47	2.2 - 2.7	

Wet Sprayed

SPRAYCRETE 40 Wet	12	27	35	47	2.0 - 2.4	As standard Spraycrete, but designed to be applied by the wet process
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Danger

Causes serious eye damage
Causes skin irritation

May cause allergic skin reaction
May cause respiratory irritation

