

TECHNICAL INFORMATION

CEMROK DRY SPRAY CONCRETE

Product Data Sheet: Concrete Repair and Installation

DESCRIPTION

The **Cemrok Dry Spray Concrete** range consists of high performance pre-blended cementitious materials specifically designed for dry spray application.

Certain grades within the range comply with DTp BD27/86 Materials for the Repair of Concrete Highway Structures clause 5. Model Specification for Spray Concrete. Please refer to the table overleaf for further information.

USES

Cemrok Dry Spray Concrete is designed for general dry spraying applications where a moderate to high in-situ strength is required. Typical uses include rock face and mine working stabilisation, tunnel repairs and steel protection, general refurbishment and architectural profiling.

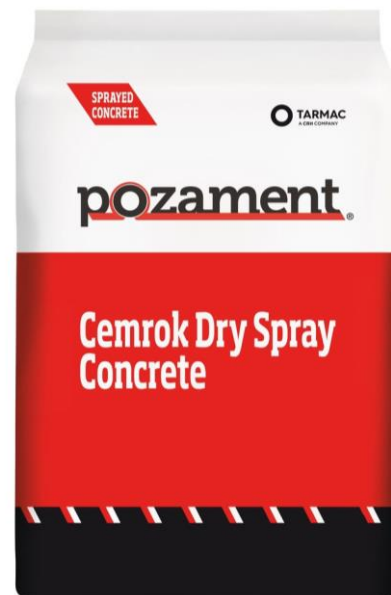
A variety of different strengths are available along with the following special properties:

- Standard
- Accelerated
- Highly Accelerated

Polypropylene or steel fibres can also be incorporated into the mix for additional reinforcement.

SPECIAL PROPERTIES

- Available in low, moderate & high strengths
- Rapid strength gain
- Low rebound and high bond
- Non-corrosive
- Non-reactive aggregates
- No chloride admixtures
- High build – can be built up to 150mm vertical and 90mm overhead
- Low water absorption



MIXING INSTRUCTIONS

Cemrok Dry Spray Concrete should be mixed using cool, clean water.

Cemrok Dry Spray Concrete can be mixed and placed with most types of guniting equipment. The powder should be added directly to the hopper and the water addition should be judged by the nozzleman.

APPLICATION INSTRUCTIONS

Before application the receiving surface should be thoroughly cleaned and structurally sound. High pressure jet washing is recommended to remove loose or unstable materials that would weaken the bonding process. Grit cleaning or prescabbling is also recommended. Any oil and grease deposits should be removed. The effectiveness of decontamination should be assessed before proceeding by means of a pull off test.

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For more details contact:
03444 630 046 specialistproducts@tarmacbp.co.uk

Expose any steel reinforcement and thoroughly clean to a bright steel.

Exposed reinforcing steel can be primed with **Pozament Steel Primer** to provide additional corrosion protection.

After cleaning, and before spray concrete is applied, the receiving surface should be thoroughly pre-wetted with water to generate a damp surface and any excess water should be allowed to drain off.

FINISHING AND CURING

Cemrok Dry Spray Concrete should be profiled as soon as possible after application. If a thin layer of finishing coat is required then this should take place with the minimum of disruption to the previously applied base coat.

Cemrok Dry Spray Concrete can be finished by striking off with a straight edge and closing with a steel float. Wooden or plastic floats, or damp sponges may be used to achieve the desired surface texture. The complete surface should not be overworked.

To achieve maximum performance it is essential to carry out a system of curing to maintain the repair in a damp condition for as long as possible.

Direct exposure to drying winds or sun should be avoided. Covering with hessian or polythene sheeting is recommended although spray application of proprietary curing compounds is also good practice.

TYPICAL PERFORMANCE

Product Name	Product Features	Compressive Strength (N/mm ²)			Initial Set	Final Set	Dry Density (kg)	Yield (25kg bags/m ³)	Complies with DTP BD27/86
		1 day	7 day	28 day					
CEMROK 30 DS	Standard	6	22	35	2 hours	3 hours	2200-2300	80-84	-
CEMROK 40 DS	Standard	10	30	42	2 hours	3 hours	2200-2300	80-84	✓
CEMROK 50 DS	Standard	16	42	58	2 hours	3 hours	2200-2300	80-84	✓
CEMROK 30 DS/A	Accelerated	6	22	35	5 mins	10 mins	2200-2300	80-84	-
CEMROK 40 DS/A	Accelerated	10	30	42	5 mins	10 mins	2200-2300	80-84	✓
CEMROK 50 DS/A	Accelerated	16	42	58	5 mins	10 mins	2200-2300	80-84	✓
CEMROK 30 DS/AA	Highly Accelerated	6	22	35	2 mins	5 mins	2200-2300	80-84	-
CEMROK 40 DS/AA	Highly Accelerated	10	30	42	2 mins	5 mins	2200-2300	80-84	✓
CEMROK 50 DS/AA	Highly Accelerated	16	42	58	2 mins	5 mins	2200-2300	80-84	✓
CEMROK 30 DS/PF	Polypropylene Fibres	6	22	35	2 hours	3 hours	2200-2300	80-84	-
CEMROK 40 DS/PF	Polypropylene Fibres	10	30	42	2 hours	3 hours	2200-2300	80-84	-
CEMROK 50 DS/PF	Polypropylene Fibres	16	42	58	2 hours	3 hours	2200-2300	80-84	-
CEMROK 30 DS/SF	Steel Fibres	6	22	35	2 hours	3 hours	2200-2300	80-84	-
CEMROK 40 DS/SF	Steel Fibres	10	30	42	2 hours	3 hours	2200-2300	80-84	✓
CEMROK 50 DS/SF	Steel Fibres	16	42	58	2 hours	3 hours	2200-2300	80-84	✓

The above figures are derived from laboratory testing at 20°C and a WSR of 0.10

Note: Polypropylene or steel fibres can be added to the standard, accelerated or highly accelerated variants for additional reinforcement.

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PACKAGING AND STORAGE

Cemrok Dry Spray Concrete is available in 25kg sacks, palletised and shrink wrapped.

Palletised material should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis. The product shelf life is 6 months subject to temperature and humidity conditions.

If supplied in bulk form, **Cemrok Dry Spray Concrete** should be stored in cement type silos with suitable dust control and batch weigh equipment.

Individual bags should be stored in sealed original packaging in a dry location at temperatures between 5°C and 30°C. Avoid exposure to water, frost or heat - high temperatures and high humidity will lead to a reduced shelf life.

QUALITY CONTROL HEALTH & SAFETY

All Pozament products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

CLEAN UP

Tools and equipment can easily be cleaned using water. Cleaning of tools and equipment should be carried out as soon as possible after application.

HEALTH & SAFETY

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk to serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.

INFORMATION, PRICES & ORDERING

For technical information, pricing and to place orders contact our Sales Office on the following:

Telephone: 03444 630 046

Email: specialistproducts@tarmacbp.co.uk

Visit our website: pozament.co.uk

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