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SPRAY-CON DS

Dry Shotcrete

DESCRIPTION

SPRAY-CON DS is a Portland cement based, fibre-reinforced, micro-silica modified dry shotcrete (Gunite).

USES

For vertical and overhead repairs of concrete ceilings, walls, columns and beams in parking garages, water storage tanks, swimming pools, concrete silos, tunnels, bridge piers and other concrete structures. SPRAY-CON DS is also used for rock and soil stabilization.

FEATURES/BENEFITS

- Easy, crack-free, thick to thin application
- Up to 300 mm (12") in a single application
- Long lasting crack resistance
- Low shrinkage
- Excellent freeze/thaw durability
- High bond strength
- Salt resistant
- Waterproof
- Air cured
- Sulphate resistance
- Prevents chloride ion penetration
- Non-toxic, non-flammable
- Superior workability = easy to apply
- Breathable
- Resists most oils, solvents and chemicals
- Labour saving system
- Low rebound
- High early strengths
- Formulated to minimize dust

PACKAGING

22.7 Kg (50 Lb.) Bags

COVERAGE/YIELD

10.2 L (0.39 ft.³) and covers approximately 1.72 m² @ 6 mm (18.5. ft.² @ ¼") thickness per bag. Allowance must be made for waste and "cut-off".

SHELF LIFE

When stored on pallets in a dry, cool area, shelf life is 12 months.

TECHNICAL DATA

Compressive Strength (ASTM C109)	5,900 - 7,100 psi (40.5 - 48.8 MPa)
Modulus of Rupture (ASTM C348)	1,100 - 1,300 psi (7.9 - 8.9 MPa)
Bond Strength with Concrete	Exceeds the tensile strength of concrete substrate
Colour	Dark Grey

APPLICATION

Surface Preparation ... Remove all loose, delaminated, or grease-contaminated concrete. Use sand blasting, scabbling, high pressure water blast [min. 55.1 - 68.9 MPa (8000 - 10,000 psi), or other approved methods to remove any laitance, dirt, and efflorescence. Mechanically roughen or high pressure water-jet existing concrete substrate to a minimum concrete surface profile of CSP-5.

Reinforcing Steel ... Remove concrete behind the reinforcing steel to 25 mm (1") depth. Remove loose rust from the surface of the reinforcing steel and apply two coats of FIBRE-PRIME rust proofing.

Crack Treatment ... Mesh all dynamic cracks with galvanized welded wire fabric mechanically fastened over the crack.

Application Method ... Spray apply SPRAY-CON DS using dry shotcrete equipment in accordance with ACI 506- R85, Guide to Shotcrete. Use predampener to adjust the moisture content to 3-4% to reduce dusting and rebound. During shotcreting, the nozzle distance from the substrate should be 0.6 - 1.2 m (2' - 6') and the nozzle angle to the substrate 90 degrees. The consistency of SPRAY-CON DS should be similar to a firm jelly.

The excess of the material is "cut-off" (sliced) with a sharp trowel. The surface is then finished using a broom or wood float, or can be steel trowelled for a smooth finish.

Curing ... SPRAY-CON DS must be wet cured for two days. Protect against fast drying using a surface evaporation retardant, water-based curing compounds or fine water mist. 1100 or the VOCOMP series from W. R. MEADOWS can be used for curing. EVAPRE from W. R. MEADOWS can be used as the surface evaporation retardant. When working under tarps at freezing temperatures, use electrical heaters. Avoid using propane heaters to prevent carbonation of the material.

Cleanup ... All tools and equipment must be cleaned with water immediately after use. Cured material must be removed mechanically.

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LIMITATIONS/PRECAUTIONS

Do not apply SPRAY-CON DS when the temperature is expected to be below 4° C within 48 hours. Follow Hot Weather concreting procedures when applying SPRAY-CON DS at temperatures exceeding 25° C.

For most recent data sheet, sustainability information, and SDS, visit www.gemite.com.



LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.