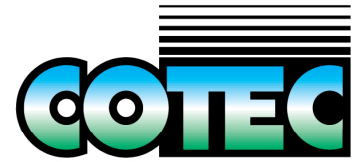




High Performance Paint Product Data Sheet



CD (CONCRETE DENSIFIER)

56-251 JUN 09



DESCRIPTION: A water based, VOC-free treatment for concrete and other cementitious substrates, which fills, densifies and strengthens in preparation for surface coatings. Can be polished.

TYPICAL USES: Filling and sealing of porous or friable cementitious surfaces such as concrete floors, walls, brick and block work, in preparation for application of surface coating products.

PERFORMANCE: CD (CONCRETE DENSIFIER) uses silicate technology to chemically bind with free lime in cementitious products, resulting in less porosity, and increased strength. As concrete cures, water reacts with cement to form calcium hydroxide and silica, which in turn react together to form calcium silicate hydrate – the compound which provides the concrete with its strength and durability. However, the reaction leaves an excess of calcium hydroxide (“free lime”) which does not contribute to the structural integrity of the concrete. Free lime can constitute as much as 20% of the concrete. CD (CONCRETE DENSIFIER) works by reacting with this free lime to produce more calcium silicate hydrate, producing a denser stronger, less porous surface.

LIMITATIONS: Do not apply if the surface and air temperature during application and drying is likely to fall below 10°C or if rain is imminent.

TECHNICAL DATA:

Resin:	Silicate
Solvent:	Water
Finish:	Natural
Colour:	Clear
Touch Dry (minimum):	15-30 minutes @ 20°C
Recoat Time (minimum):	1-4 hours
Primer:	Self priming impregnation coating
Number of Coats:	See over
Dry Film Thickness:	
Wet Film Thickness:	
Durability:	
Thinning and Clean Up:	Water
VOC:	
Pot Life:	Not Applicable
Pack Size:	4, 20 Litre

SPREAD RATE:

Theoretical Coverage: Approx. 5 m²/litre/coat.
Coverage depends on surface profile and porosity.

COMPUTER CODES:

CD (Concrete Densifier) 56-251

Coating Technologies Limited, 16 Aetna Place, Henderson, Auckland, New Zealand

Phone: 0064 9 837 0897 Fax: 0064 9 837 3736 www.cotec.co.nz

Technical information given verbally or in writing is based on knowledge and research, given in good faith and believed to be reliable, but no guarantee of accuracy is made or implied. Since methods and conditions of use are beyond our control, all merchandise is sold and received subject to the condition that our liability whether express or implied for any defect in quality, or for any lack of fitness for the specified use thereof, is limited to the return of the purchase price if written claim is made within 14 days from the date of delivery. It is recommended that the user makes his or her own tests to determine the suitability of the product for his own requirements. Freedom from patent restrictions is not implied.

CD (CONCRETE DENSIFIER)

SURFACE PREPARATION:

(Refer to “Surface Preparation and Paint Systems” for full details). To ensure a successful application all surfaces to be coated must be clean, dry and stable.

ALL SURFACES:

Any mould, moss or algae needs to be treated with a suitable chemical cleaner/inhibitor. Ensure surfaces are free from oil, grease and any surface contamination. Use commercial detergent/alkali cleaner. Ensure substrate is dry, prior to application.

OLD CONCRETE:

Ensure any residues of oil, grease, laitance or other contaminants are removed. Heavily contaminated or sealed floors may require diamond grinding to “open” the surface. Fill and repair all holes, cracks and deteriorated areas. Ensure surface is thoroughly clean and dry.

NEW CONCRETE:

CD (CONCRETE DENSIFIER) may be applied to new concrete after initial cure, i.e: 2-3 days.

BRICK, BLOCKWORK, PLASTER FINISHES:

Remove any mould, moss or algae, using an appropriate cleaner/inhibitor. Ensure any residues of oil, grease, laitance or other contaminants are removed. Fill and repair all holes, cracks and deteriorated areas. Ensure surface is thoroughly clean and dry.

CD (CONCRETE DENSIFIER) is not intended for application to sealed surfaces.

Note: Commencement of work on a surface means in general you accept that surface. If any doubt about condition etc, seek advice.

APPLICATION:

Apply CD (CONCRETE DENSIFIER) undiluted at approximately 5 m²/litre using a low pressure sprayer, or soft bristled broom. Keep the surface saturated with product for at least 30 minutes, (or 1 hour in warm, dry conditions) to allow maximum penetration. Pay particular attention to porous or dry areas.

For particularly friable or porous substrates, 2 or 3 applications may be necessary. For dense surfaces, a 1:1 dilution of the product with water may be necessary to achieve good depth of penetration.

Once product has fully penetrated and started to dry out, remove any excess from the surface with copious amounts of water and a broom.

FAILURE TO THOROUGHLY WASH OFF EXCESS MATERIAL FROM THE SURFACE MAY RESULT IN UNSIGHTLY WHITE STAINS.

AVOID CONTACT WITH GLASS OR METAL SURFACES, AS PERMANENT ETCHING WILL OCCUR.

THINNING & CLEAN UP:

Do not thin. Clean up in water. Use a small amount of detergent to aid clean up.

ENVIRONMENTAL:

DO NOT POUR paint or wash down storm water or water courses. ALWAYS dispose of in accordance with local Government regulations. Soak up spills with absorbent material and dispose of properly. If spraying use suitable respiratory protection. Refer to the MATERIAL SAFETY DATA SHEET.
