



Technical Data Sheet

Ccrete

Resurfacing Coating

DESCRIPTION

Ccrete combines advantages of both epoxy and polyurethane technologies. It was designed to maintain the integrity of concrete surfaces while showing very good appearance. It exhibits excellent physical, chemical and solvent resistance. It is very suitable for surface protection in various areas such as Industrial, Commercial, Infrastructural and Residential.

ADVANTAGES

- Excellent abrasion resistance
- Low temperature curing
- Excellent resistance to bacterial proliferation
- Stable in water immersion at low temperature
- Zero V.O.C (Environmentally friendly)
- No particle emissions (zero phenol)
- Excellent adhesive properties with concrete
- Easy to clean
- C.F.I.A approval in progress
- UV ray resistance
- Stain and yellowing resistant
- Very good chemical resistance

APPLICATIONS

- Commercial & Public buildings
- Schools & Universities
- Hospitals & Health Care Facilities
- Manufacturing & Maintenance Areas
- Aircraft Hangar
- Auto Dealership and Maintenance Facilities
- Animal Housing & Care Facilities
- Food Processing
- Beverage & Bottling Facilities
- Chemical Processing & Containment Areas
- Refineries
- Light Manufacturing
- Heavy Duty Manufacturing
- Pharmaceutical & Biotech Research Facilities
- Printing Facilities
- Pulp & Paper Facilities
- Warehouse Facilities

INSTRUCTIONS

Before application, the surface must be prepared by BLASTRAC or any other approved methods. Clean the surface by removing any dust, grease, oil, dirt wax, and any other foreign substances. The compression resistance of the concrete must be at least 25 MPA (3625 PSI) after 28 days and the traction resistance, 1.5 MPA (217.5PSI).

According to the proper mix ratio, mix both components for at least 3 minutes using a drill at low revolution (200 to 300 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life.

Apply the product with a squeegee and then back roll lightly using a roller 5 or 10 mm (smooth surfaces).

The application varies between 15 and 20 minutes at room temperature.

Table 1: Recoat time and surface temperature

Temperature (°C)	Minimum time (Hour)	Maximum time (Day)
10	24	4
20	12	2
30	6	1

Warning:

- Maximal concrete temperature: 30°C.
- Relative Humidity: 85 %.
- The temperature of the concrete must be higher than 3°C (5, 5°F) at the dew point.
- The humidity content of the substrate must be < 4.
- Do not apply on porous surfaces where a transmission of moisture or humidity can occur during the application process.
- Avoid application on surfaces that are not on ground level.
- Protect against humidity, condensation and keep water away during the initial 24 hour ripening period.

Table 2: APPLICATION PROPERTIES

	Resin	Hardener	Mix
Color	Clear	Clear	On demand
Specific gravity(25° C)	1.16	1.00	1.05
Viscosity (cps) @25°C	2400-3000	250-350	1400 - 1700
Cleaner	SC-1000	SC-1000	SC-1000
Mix ratio by volume	1	2	N.A
Gel time (min) (100g)	N.A	N.A	50-70
Set time (hours) (0.1-0.4 mm/4-16mils)	N.A	N.A	4-6
Recoat time (hours)	N.A	N.A	4-6
Pedestrian traffic (hours)	N.A	N.A	12-24
Heavy traffic (hours)	N.A	N.A	24-36
Mileage (ft² per gallon) (0.2 mm/8mils)	N.A	N.A	200
Storage (months)	12	12	N.A

Table 3: PHYSICAL PROPERTIES

	Test methods	Test results
Compressive Strength (psi)	ASTM D695	6000
Hardness (Shore D)	ASTM D2240	70-80
Elongation (%)	ASTM D638	7
Abrasion resistance (g)	ASTM D4060	
CS17 / 1000 cycles / 1000 g		0.03
Water absorption (%)	ASTM D570	0.05

Notice: The facts stated and the recommendations made with respect to the use of this product are based on liable information. No guarantee of accuracy is made. Before using, determine the suitability of the product's intended use. The purchaser is committed to validate the material before using it. The risks, damages and expenses related to the use of the material must be well evaluated before using the good.

It is strongly recommended to consult the Material Safety Data Sheet. (MSDS)