

CHEMFIT CCURE E7

General Curing Compound – For Concrete Curing

PRODUCT DESCRIPTION

ChemFit CCure E7 is a high-quality, general purpose curing compound specifically formulated for freshly placed concrete surfaces. This effective curing compound forms a continuous moisture-retentive membrane over the concrete surface, locking in water to ensure complete and proper cement hydration. It is designed as a versatile, cost-effective solution for general concrete curing applications where reliable moisture retention is required. The formulation provides excellent water retention properties, preventing rapid moisture loss due to evaporation, wind, and temperature variations.

This product conforms to industry standards for concrete curing compounds and is suitable for use on a wide range of cementitious surfaces.

PRIMARY APPLICATIONS

ChemFit CCure E7 is recommended for use in conditions such as:

- General concrete curing for all types of construction
- Foundations and footings
- Slab-on-grade for residential and commercial buildings
- Pavements, walkways, and driveways
- Curb and gutter applications
- Parking lots and light-duty pavements
- Mass concrete pours and foundations
- Hot weather concreting requiring evaporation protection
- Windy site conditions where rapid moisture loss occurs
- General construction projects requiring cost-effective curing
- Precast concrete elements
- Repair and rehabilitation projects

KEY FEATURES AND BENEFITS

- **General purpose formulation** – Suitable for a wide range of concrete curing applications
- **Effective water retention** – Retains moisture for complete cement hydration
- **Promotes proper hydration** – Ensures full strength development and durability
- **Reduces cracking** – Minimizes plastic shrinkage and drying shrinkage cracks
- **Prevents rapid moisture loss** – Protects concrete from wind, sun, and temperature effects
- **Easy to apply** – Can be sprayed or rolled onto fresh concrete surfaces
- **Good coverage rates** – 5 – 6 m² per liter of product
- **Compatible with all concrete** – Works with all cement types and mix designs
- **One-coat application** – Single application provides adequate curing protection
- **Cost-effective** – Affordable solution for general curing requirements
- **Ready-to-use** – No mixing or dilution required
- **Reliable performance** – Consistent results across a range of conditions

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Liquid
Color	Clear to light amber
Form	Ready-to-use liquid
Specific Gravity	0.85 – 0.92 at 25°C
Viscosity	Low to medium (easy spray application)
Solids Content	12 – 20% (typical)
Flash Point	> 60°C
VOC Content	Moderate
Freezing Point	< 0°C
Drying Time	15 – 30 minutes (depending on conditions)
Water Retention	> 90% (ASTM C156)
Membrane Color	Clear to translucent
Application Temperature	+5°C to +50°C

PACKAGING AND STORAGE

Packaging:

- 20 L pails / drums
- 200 L drums

Storage:

- Store in original sealed containers at +5°C to +35°C
- Protect from direct sunlight, extreme heat, and open flames
- Keep container tightly closed when not in use
- Store away from oxidizing agents and strong acids
- Do not store near food or drinking water

Shelf life: 12 months from date of manufacture when stored properly

DOSAGE AND COVERAGE RATES

The recommended coverage of **ChemFit CCure E15** is 5 to 6 square meters per liter of product.

Standard coverage (5 – 6 m²/L): Provides adequate curing protection for roads, slabs, decks, and general horizontal applications

Higher coverage (above 6 m²/L): Not recommended as film thickness may be insufficient for adequate water retention

Lower coverage (below 5 m²/L): Provides additional curing protection for extreme conditions (high wind, very high temperature, low humidity)

Coverage per container:

- Per 20 L pail: Covers approximately 100 – 120 m² of concrete surface
- Per 200 L drum: Covers approximately 1,000 – 1,200 m² of concrete surface

Example coverage for typical projects:

Project Type	Area	Required Product
Residential driveway	50 m ²	8 – 10 liters (1/2 pail)
Commercial slab	500 m ²	80 – 100 liters (4 – 5 pails or 1/2 drum)
Highway section	1,000 m ²	160 – 200 liters (1 drum)
Large industrial floor	5,000 m ²	800 – 1,000 liters (5 drums)
Housing development (10 houses)	1,200 m ²	200 – 240 liters (1 drum +)

NOTE: Coverage rates are approximate and may vary depending on surface texture, porosity, application method, and environmental conditions. For rough or broom-finished surfaces, higher application rates (lower coverage) may be required to ensure complete film formation. For smooth troweled surfaces, standard coverage is typically sufficient. For extreme hot or windy conditions, consider reducing coverage to 4 – 5 m²/L for additional protection.

APPLICATION GUIDELINES

ChemFit CCure E7 should be applied to freshly placed concrete as soon as the surface is free of standing water and bleed water has evaporated. For best results, apply the curing compound immediately after final finishing is complete, typically when the concrete surface has a uniform matte appearance. Do not apply to wet or ponded surfaces as the curing compound will not adhere properly. The product can be applied by low-pressure spray (hand-held sprayer or garden sprayer), airless sprayer, or roller. Spray application is recommended for large areas to achieve uniform, even coverage. Apply at the recommended coverage rate of 5 – 6 m²/L to achieve a continuous, uniform film. Apply in a single coat – one uniform application is sufficient for most general applications. Do not thin or dilute the product as this will reduce film thickness and water retention performance. For best results, apply in a systematic pattern to ensure complete coverage without gaps or overlaps. On large areas, consider using spray equipment with a wide fan nozzle for efficient application. For vertical or overhead surfaces, use a formulation specifically designed for such applications (consult ChemFit technical support). The curing compound will dry to form a continuous film within 15-30 minutes depending on temperature and humidity. Protect the curing film from foot traffic, equipment, or other damage during the curing period. The curing film will naturally wear away over time (typically 7-28 days depending on traffic and weather exposure). For concrete requiring subsequent surface treatments (paint, tile adhesive, floor coverings), remove the curing film by mechanical abrasion or allow sufficient time for natural degradation. Do not apply to frozen surfaces or when temperatures are expected to drop below freezing within 24 hours of application. For best results in hot weather, apply immediately after finishing to prevent rapid moisture evaporation.

HEALTH AND SAFETY

ChemFit CCure E7 may cause mild eye and skin irritation. If eye contact occurs, rinse thoroughly with water for 15 minutes. For skin contact, wash with soap and water. If swallowed, do not induce vomiting; instead rinse the mouth and drink water, then seek medical advice. Use gloves, safety glasses, and protective clothing during handling. Avoid prolonged or repeated skin contact. Ensure adequate ventilation when using in enclosed spaces. Do not smoke or use near open flames. Store away from oxidizing agents. Refer to the Safety Data Sheet for detailed information.

CLEANG OF TOOLS

Clean all spray equipment, rollers, and containers with mineral spirits, paint thinner, or suitable solvent immediately after use. Do not allow the product to dry on equipment as removal will be difficult. Dispose of cleaning materials in accordance with local regulations. Do not discharge into drains or watercourses.

APPROVALS AND STANDARDS

ChemFit CCure E7 conforms to the following standards:

- General purpose curing compound for concrete surfaces
- Suitable for use on foundations, slabs, pavements, and general concrete applications
- Meets industry requirements for water retention and film formation
- Provides effective curing protection for cement hydration

LEGAL NOTES

All technical data provided in this Product Data Sheet is based on laboratory testing under controlled conditions. Actual field performance may vary due to differences in substrates, application methods, site conditions, and environmental factors. ChemFit makes no warranty of merchantability or fitness for a particular purpose. Users shall conduct their own trials to validate product suitability for the intended application. ChemFit reserves the right to modify product specifications without prior notice. For the most current documentation, request the latest Product Data Sheet and Safety Data Sheet from ChemFit.

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