TECHNICAL DATA

SC 90 Clear Coat

High-Performance 90% Solids Aliphatic Polyaspartic Floor Coating

DESCRIPTION

SC 90 Clear Coat is a two-component, high-solids, low-odor, solvent-based aliphatic polyaspartic coating designed for fast-cure, durable protection of concrete floors. It provides excellent abrasion resistance, chemical resistance, UV stability (non-yellowing), and a high-gloss finish. Ideal for applications requiring rapid return to service with minimal downtime.

USES

- Industrial and commercial floor
- Warehouses, manufacturing facilities, garages, and auto service areas
- Topcoat over broadcast systems (flake/quartz) or direct-to-concrete applications
- Interior and exterior use where UV exposure occurs
- Areas needing high abrasion, impact, and chemical resistance with quick cure times

APPLICATION

Surface Preparation: Concrete must be clean, sound, and profiled to CSP 3–5 (shotblast or diamond grind). Moisture vapor emission <3 lbs/1,000 sq. ft./24 hrs (ASTM F1869) or <75% RH (ASTM F2170).

Mixing: Pre-mix each component. Combine 1.7 : 1.0 by volume and mix thoroughly for 2–3 minutes using a low-speed drill. Do not aerate excessively.

Application: Apply with a notched squeegee and back-roll with 3/8" nap or spiked roller to reduce surface imperfections and entrapped air. Multiple coats may be required for broadcast systems.

Temperature Limits: Apply when surface/ambient temps are 40–90°F (4–32°C) and rising; avoid dew point issues.

CLEAN UP

Clean tools and equipment immediately with solvent such as SpecChem SOLVENT 100, Xylene, toluene, or MEK. Do not allow to hardening on equipment.

CURE SCHEDULE

At 77°F / 25°C, 50% RH

- Tack-free / dry to touch: 1–2 hours
- Light foot traffic: 4-6 hours
- Recoat / topcoat window: 4–24 hours
- Vehicle / heavy traffic: 24 hours

TECHNICAL DATA

- % Solids = 90% (±2%)
- VOC Content: <50 g/L (low odor/VOC compliant in most regions) OTC compliant
- Colors Available: Clear (non-yellowing); pigmented options available upon request
- Finish: High gloss (>90 at 60° per ASTM D523)
- Mix Ratio (by volume): 1.7 to 1 (Part A : Part B)
- Pot Life (100g mass @ 77°F / 25°C): 20–30 minutes (varies with temperature/mass)
- Viscosity (mixed): 300–500 cps
- Recommended Film Thickness: 8–15 mils wet (4–10 mils dry typical per coat)
- Coverage Rate: 100–150 sq. ft. per gallon per coat (depending on surface porosity and thickness; e.g., 150 sq. ft./gal at 10 mils)
- Packaging: 1gal unit (5 pints Part A + 3 pints Part B)
  4.5-gallon kits (2.8 gal Part A + 1.7 gal Part B);
- Shelf Life: 12 months in unopened containers at 40–90°F (4–32°C)

PHYSICAL PROPERTIES

7-day cure @ 77°F unless noted)

- Tensile Strength (ASTM D638): 3,500–4,500 psi
- Elongation (ASTM D638): 5–15%
- Hardness (Shore D, ASTM D2240): 70–80 (7 days)
- Compressive Strength (ASTM D695): 5,000–6,000 psi (7 days)
- Taber Abrasion Resistance (ASTM D4060, CS-17 wheel, 1,000 g load, 1,000 cycles): 20–40 mg loss
- Impact Resistance (ASTM D2794): >50 in-lbs direct / >30 in-lbs reverse
- Flexibility (1/8" mandrel, ASTM D522): Passes (no cracking)
- Adhesion to Concrete (ACI 503 or similar): >300 psi (substrate failure typical)

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LIMITATIONS/PRECAUTIONS

- Not for immersion service or constant water pooling.
- For professional use only; test compatibility in small areas.
- Pot life and cure times decrease with higher temperatures/mass.

SAFETY/HANDLING

Additional precautions, first aid, and safety information are contained in the Safety Data Sheet (SDS). Use appropriate PPE (gloves, goggles, respirator if needed). Keep away from open flame. Flammable components.

WARRANTY

SpecChem offers this product for sale subject to and limited by the warranty and conditions of sale provided with the product. SpecChem warrants the product to be free of manufacturing defects at time of shipment. This is not a performance warranty. Proper surface preparation and application per instructions are the responsibility of the applicator. SpecChem is not liable for incidental or consequential damages. Consult current SDS and technical literature before use.

TECHNICAL SERVICES

For assistance, contact technical services at:
866-791-8700
www.SpecChem.com

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