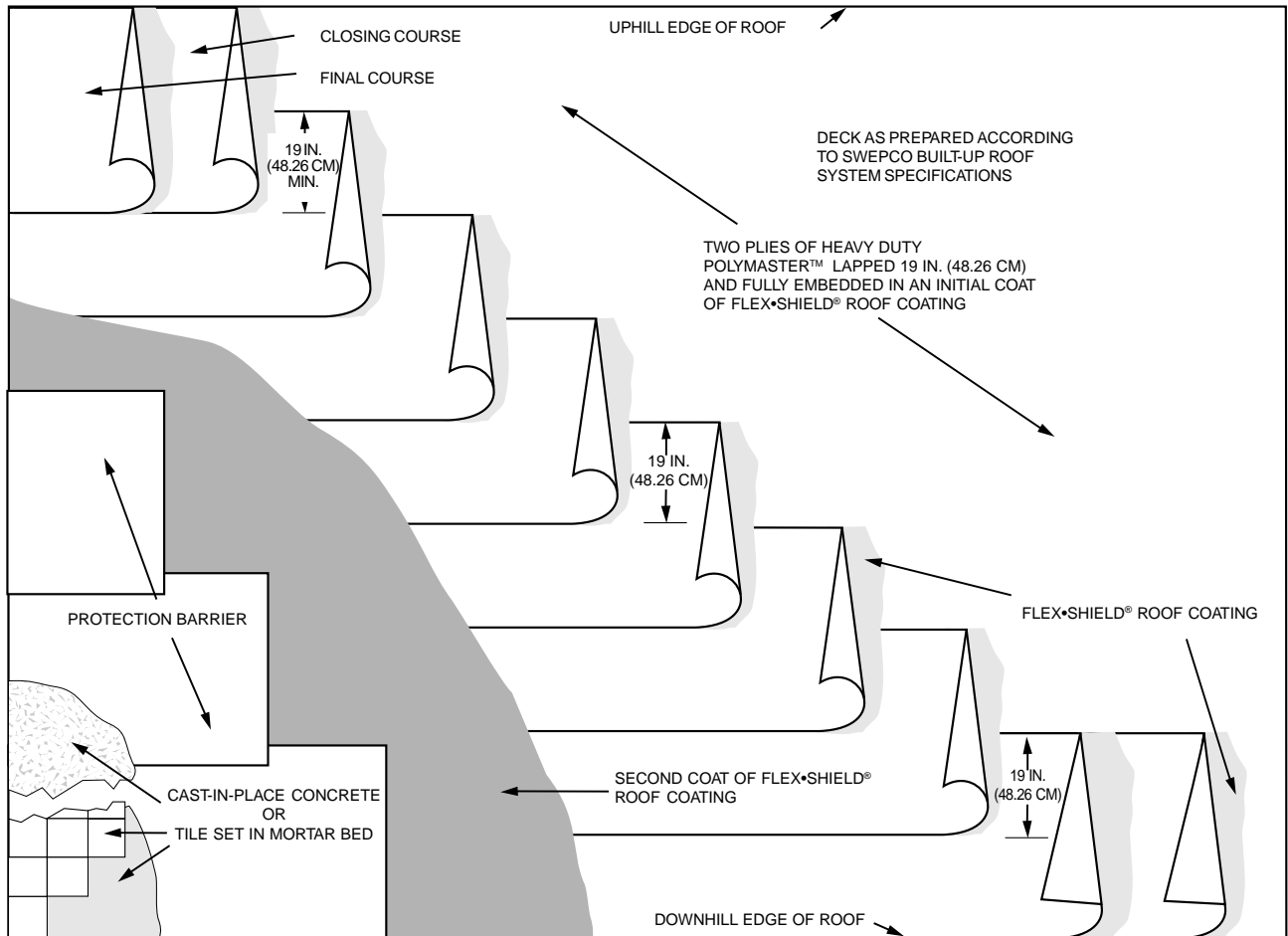


SWEPCO BUILT-UP ROOF SYSTEM SPECIFICATION 504 (Trafficable)

TYPE OF DECK: Cast-in-place Concrete

PRODUCTS	MATERIAL REQUIRED ³ PER 100 SQ. FT. (PER M ²)	APPROX. DRY WT. PER 100 SQ. FT. (PER M ²)
Flex•Shield® Roof Coating	6.44 gal. (2.62 liter)	26.21 lb. (1.28 kg)
Heavy Duty PolyMaster®	216.00 sq. ft. (2.16 m ²)	2.40 lb. (0.12 kg)
Protection Barrier	108.00 sq. ft. (1.08 m ²)	(Varies—See Manufacturer)
Heavy Duty Patching Compound ¹	1.00 lb. sq. ft. (4.88 kg/m ²) of flashings	
Heavy Duty Patching Fabric ²	1.00 sq. ft./sq. ft. (1.00 m ² /m ²) of flashings	

- Heavy Duty Patching Compound is applied at the rate of 0.50 lb./lineal ft. (0.74 kg/m) when using 6 in. (15.24 cm) wide Heavy Duty Patching Fabric, 1.00 lb. lineal ft. (1.49 kg/m) when using 12 in. (30.48 cm) wide Heavy Duty Patching Fabric and 3.00 lb./lineal ft. (4.46 kg/m) when using 36 in. (91.44 cm) wide Heavy Duty Patching Fabric. When used without Heavy Duty Patching Fabric, application is normally at the rate of 1.00 lb./sq. ft. (4.88 kg/m²).
- Heavy Duty Patching Fabric is available in 150 ft. (45.72 m) rolls of 6 in. (15.24 cm), 12 in. (30.48 cm) and 36 in. (91.44 cm) width. Order one roll in appropriate width for each 150 lineal feet (45.72 m) to be patched.
- Figures used in the "Material Required" column should be used only when calculating total material requirements for this system. They should not be confused with coverage (application) rates used elsewhere in these instructions and on container labels.



INSTALLATION INSTRUCTIONS

IMPORTANT: Carefully read and observe all safety precautions and instructions on SWEPCO Product container labels.

1. WORKMANSHIP

All work shall be performed in an efficient and workmanlike manner. Under no circumstances shall there be any evidence of wrinkles, fish mouths, or other indications of poor laminations or defects in the installed Heavy Duty PolyMaster®. No torn or damaged Heavy Duty PolyMaster® shall be installed.

2. PREPARATION

The roof deck shall be prepared according to specifications presented in "SWEPCO BUILT-UP ROOF SYSTEM GENERAL SPECIFICATIONS". However, pre-treatment of the deck with SWEPCO Concrete Primer is not required.

3. INSTALLATION OF THE ROOF MEMBRANE

Starting at the low (downhill) edge of the roof, install two plies of Heavy Duty PolyMaster® embedded in an initial coat of Flex•Shield® Roof Coating applied at the rate of 2.00 gal. per 100 sq. ft. (0.82 liter/m²). (See diagram on opposite side.) Lap edges 19 in. (48.26 cm) and ends 6 in. (15.24 cm), insuring proper embedding and sealing of all laps. Continue installing courses of Heavy Duty PolyMaster® in shingle fashion until the entire roof surface is covered. The amount of lap of the final course of Heavy Duty PolyMaster® will vary, but, in no event shall it be less than 19 in. (48.26 cm). Immediately after embedding the Heavy Duty PolyMaster® in the first coat of Flex•Shield® Roof Coating, the entire roof membrane should be given a second coat of Flex•Shield® Roof Coating at the rate of 2.00 gal. per 100 sq. ft. (0.82 liter/m²).

IMPORTANT NOTE: The key to durability of this built-up roof system is proper embedding of the Heavy Duty PolyMaster® between two coats of Flex•Shield® Roof Coating. The Heavy Duty PolyMaster® must be thoroughly embedded in the first coat of the coating while it is still wet. It should be broomed in until it is thoroughly saturated (brownish-black in color). Care must be taken to insure adequate sealing of all laps. The second coat can then be applied.

4. SEALING THE ROOF MEMBRANE

All edges, parapet walls, joints and protrusions through the roof deck must be flashed and sealed as prescribed in "SWEPCO BUILT-UP ROOF SYSTEM GENERAL SPECIFICATIONS".

5. TRAFFICABLE SURFACING

- a. Do not install the trafficable surface over the completed built-up roof system until at least 7 days have elapsed.
- b. Before installing the trafficable surface, a protection barrier must be placed over the built-up roof system. The barrier material must be thick enough to prevent damage to the built-up roof system. It must be waterproof and rot resistant. Acceptable protection barriers include 6 mil (0.2 mm) polyethylene sheet or Heavy Duty PolyPly. Protection barrier is loose laid lapping edges 2 in. (5.08 cm) and ends 3 in. (7.62 cm).

APPLICATION PRECAUTIONS

SWEPCO Flex•Shield® Roof Coating will freeze. It should not be applied in temperatures below 40°F (4°C), nor should it be applied in rainy weather or if rain is expected before complete curing can take place. Normally only 24 hours are required for curing, but in cool, cloudy, damp or humid conditions curing can take longer. Avoid thick build-ups or puddles of the coating as this can cause shrinkage cracking.



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