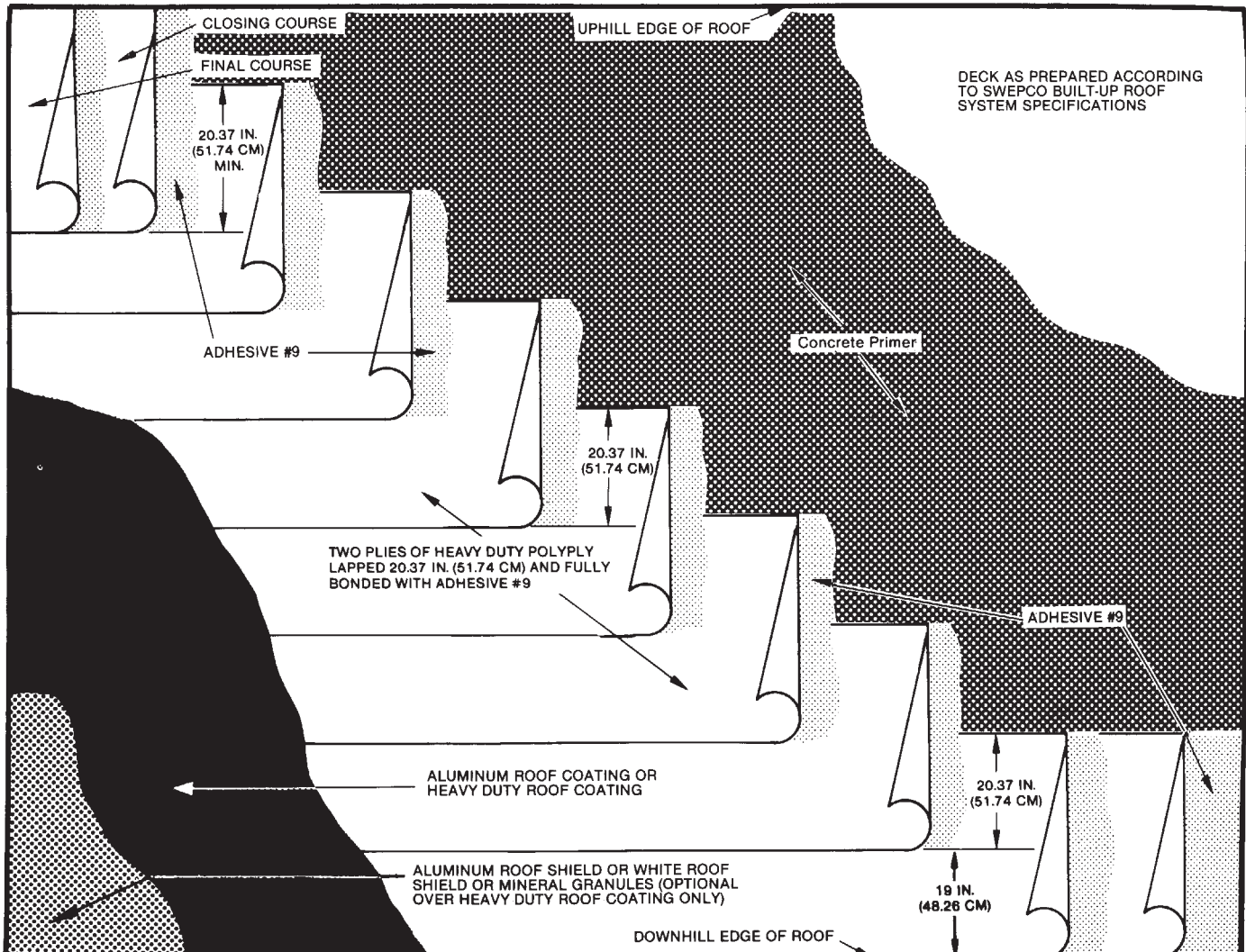


# SWEPCO BUILT-UP ROOF SYSTEM 301

TYPE OF DECK: Cast-in-place Concrete

PRODUCTS	MATERIALS REQUIRED PER 100 SQ. FT. (PER M <sup>2</sup> )	APPROX. DRY WT. PER 100 SQ. FT. (PER M <sup>2</sup> )
Aluminum Roof Shield (Optional) <sup>1</sup> <b>OR</b> White Roof Shield (Optional) <sup>1</sup> <b>OR</b> Mineral Granules (Optional) <sup>1</sup>	.33 gal. (.13 liter) <b>OR</b> .75 gal. (.31 liter) <b>OR</b> 60.00-90.00 lb. (2.93-4.39 kg)	1.42 lb. (.07 kg) <b>OR</b> 3.17 lb. (.15 kg) <b>OR</b> 60.00-90.00 lb. (2.93-4.39 kg)
Aluminum Roof Coating <b>OR</b> Heavy Duty Roof Coating	1.50 gal. (.61 liter) <b>OR</b> 2.50 gal. (1.02 liter)	7.44 lb. (.36 kg) <b>OR</b> 13.63 lb. (.67 kg)
Heavy Duty PolyPly	216.00 sq. ft. (2.16 m <sup>2</sup> )	71.28 lb. (3.46 kg)
Adhesive #9	3.24-4.32 gal. (1.32-1.76 liter)	17.56-23.41 lb. (.86-1.14 kg)
Concrete Primer <sup>2</sup>	.50- 1.00 gal. (.20-.41 liter)	1.68-3.36 lb. (.08-.16 kg)
Heavy Duty Patching Compound <sup>3</sup>	1.00 lb./sq. ft. (4.88 kg/m <sup>2</sup> ) of flashings	
Heavy Duty Patching Fabric <sup>4</sup>	1.00 sq. ft./sq. ft. (1.00 m <sup>2</sup> /m <sup>2</sup> ) of flashing	

- <sup>1</sup> These optional reflective surfacings are designed for use when Heavy Duty Roof Coating is specified as the surface coating. Because they significantly improve the performance of the system, they are highly recommended.
- <sup>2</sup> Concrete Primer is required over concrete to insure proper bonding. See "SWEPCO BUILT-UP ROOF SYSTEM GENERAL SPECIFICATIONS" for complete instructions.
- <sup>3</sup> 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/m<sup>2</sup>).
- <sup>4</sup> 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.



# 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 SWEPCO Heavy Duty PolyPly. No torn or damaged Heavy Duty PolyPly shall be installed.

## 2. PREPARATION

The Roof Deck shall be prepared according to specifications presented in "SWEPCO BUILT-UP ROOF SYSTEM GENERAL SPECIFICATIONS". As a precautionary measure to insure good lamination of the plies of Heavy Duty PolyPly, it is allowable and in cooler climates recommended that Heavy Duty PolyPly be unrolled and allowed to uncurl for the times listed below or until completely flat:

TEMPERATURE	TIME
100°F (38°C)	5 Min.
80°F (27°C)	10 Min.
60°F (16°C)	30 Min.

## 3. INSTALLATION OF ROOF MEMBRANE

This system is composed of two plies of Heavy Duty PolyPly.

Starting at the low (downhill) edge of the roof, install two plies of Heavy Duty PolyPly. (See diagram.) Bond all courses with Adhesive #9 at the rate of 1.50-2.00 gal. per 100 sq. ft. (0.61-0.82 liters/m<sup>2</sup>). Lap edges 20.37 in. (52.74 cm) and ends 6 in. (15.24 cm) insuring complete bonding of all laps. Continue installing Heavy Duty PolyPly in shingle fashion until the entire roof surface is covered. The amount of lap of the closing and final courses will vary depending on the actual size of the roof, but, in no event, shall it be less than 20.37 in. (52.74 cm). (See diagram.) It is important that each ply be "rolled in" prior to installing the next ply. Should wrinkles or fishmouths develop, simply lift the Heavy Duty PolyPly, stretch, and set the Heavy Duty PolyPly back into the Adhesive #9 and roll it in.

A small "bleed out" of Adhesive #9 at the side lap and ends will assure a good seal at the seams.

## 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. COATING THE MEMBRANE

### a. Aluminum Roof Coating

Brush out all large patches of Adhesive #9 which may be on the exposed area of Heavy Duty PolyPly. SWEPCO Aluminum Roof Coating is applied uniformly over the entire roof at the rate of 1.50 gal. per 100 sq. ft. (.61 liter/m<sup>2</sup>). It may be applied with spray equipment, squeegee or brush.

### b. Heavy Duty Roof Coating

SWEPCO Heavy Duty Roof Coating is applied uniformly over the entire roof at the rate of 2.50 gal. per 100 sq. ft. (1.02 liter/m<sup>2</sup>). It may be applied with spray equipment, squeegee or brush.

## 6. OPTIONAL REFLECTIVE SURFACINGS

Use of one of the following reflective surfacings is recommended when SWEPCO Heavy Duty Roof Coating is specified as the final surface coating. Because they significantly improve the performance of the system, they are highly recommended.

### a. Aluminum Roof Shield

After a minimum curing period of 60 to 90 days for Heavy Duty Roof Coating, Aluminum Roof Shield can be uniformly applied over the entire roof surface at the rate of .33 gal. per 100 sq. ft. (.13 liter/m<sup>2</sup>). It can be applied using spray equipment, squeegee or brush.

### b. White Roof Shield

After a minimum curing period of 60 to 90 days for Heavy Duty Roof Coating, White Roof Shield can be uniformly applied over the entire roof surface in two coats at the rate of .38 gal. per 100 sq. ft. (.15 liter/m<sup>2</sup>) each. It can be applied using spray equipment, squeegee or brush.

### c. Mineral Granules

On roofs with slopes of 2.50 in. per ft. (20%) or less, mineral granules can be uniformly embedded into Heavy Duty Roof Coating as it is being applied or within 30 minutes after application. The recommended rate is 60.00-90.00 lb./100 sq. ft. (2.93-4.39 kg/m<sup>2</sup>). On roofs with slopes of less than .25 in. per ft. (2%) mineral granules are highly recommended. Special considerations are necessary on roofs with slopes greater than 2.50 in. per ft. (20%). Contact the Application Services Department for instructions.

