



SWEPCO Waterproofing Systems

PURPOSE & DESCRIPTION

SWEPCO Waterproofing Systems are installed at the construction stage. The systems for walls are installed on the outside surface of the walls; these systems are not for use on the inside walls of existing buildings that are already leaking. The Waterproofing Systems for floors are installed on the concrete sub-floor and are then covered with a concrete wear surface. Which SWEPCO Waterproofing System to select depends on whether the structure is subjected to hydrostatic pressure, and if so, the amount of hydrostatic pressure (hydrostatic head). There are dampproofing systems for structures with no exposure to hydrostatic pressure as well as reinforced waterproofing systems to protect against hydrostatic pressure up to 30 ft. (9.14m) of hydrostatic head. Generally, the greater the hydrostatic head, the more material (and the more layers) in the system.

INDEX TO SYSTEMS AND GUARANTEES

| <i>SUBGRADE WALLS</i> | <i>HYDROSTATIC HEAD</i> | <i>GUARANTEE</i> |
|------------------------|-------------------------------|------------------|
| System 801 | None (Light Dampproofing) | 2 Years |
| System 802 | None (Heavy Dampproofing) | 5 Years |
| System 803 | 0-4.00 feet (0-1.22m) | 5 Years |
| System 804 | 4.00-15.00 feet (1.22-4.57m) | 10 Years |
| System 805 | 15.00-30.00 feet (4.57-9.14m) | 10 Years |
| <i>SUBGRADE FLOORS</i> | | |
| System 901 | None (Heavy Dampproofing) | 5 Years |
| System 902 | 0-4.00 feet (0-1.22m) | 10 Years |
| System 903 | 4.00-15.00 feet (1.22-4.57m) | 10 Years |
| System 904 | 15.00-30.00 feet (4.57-9.14m) | 10 Years |

For applications where hydrostatic water pressure exceeds 30 ft. (9.14m) of hydrostatic head, consult Engineering Department, Southwestern Petroleum Corporation.

The above guarantees are applicable only to Waterproofing Systems installed on the subgrade walls and floors of buildings and are not applicable for other waterproofing applications such as swimming pools, water tanks, planter boxes and bathrooms.

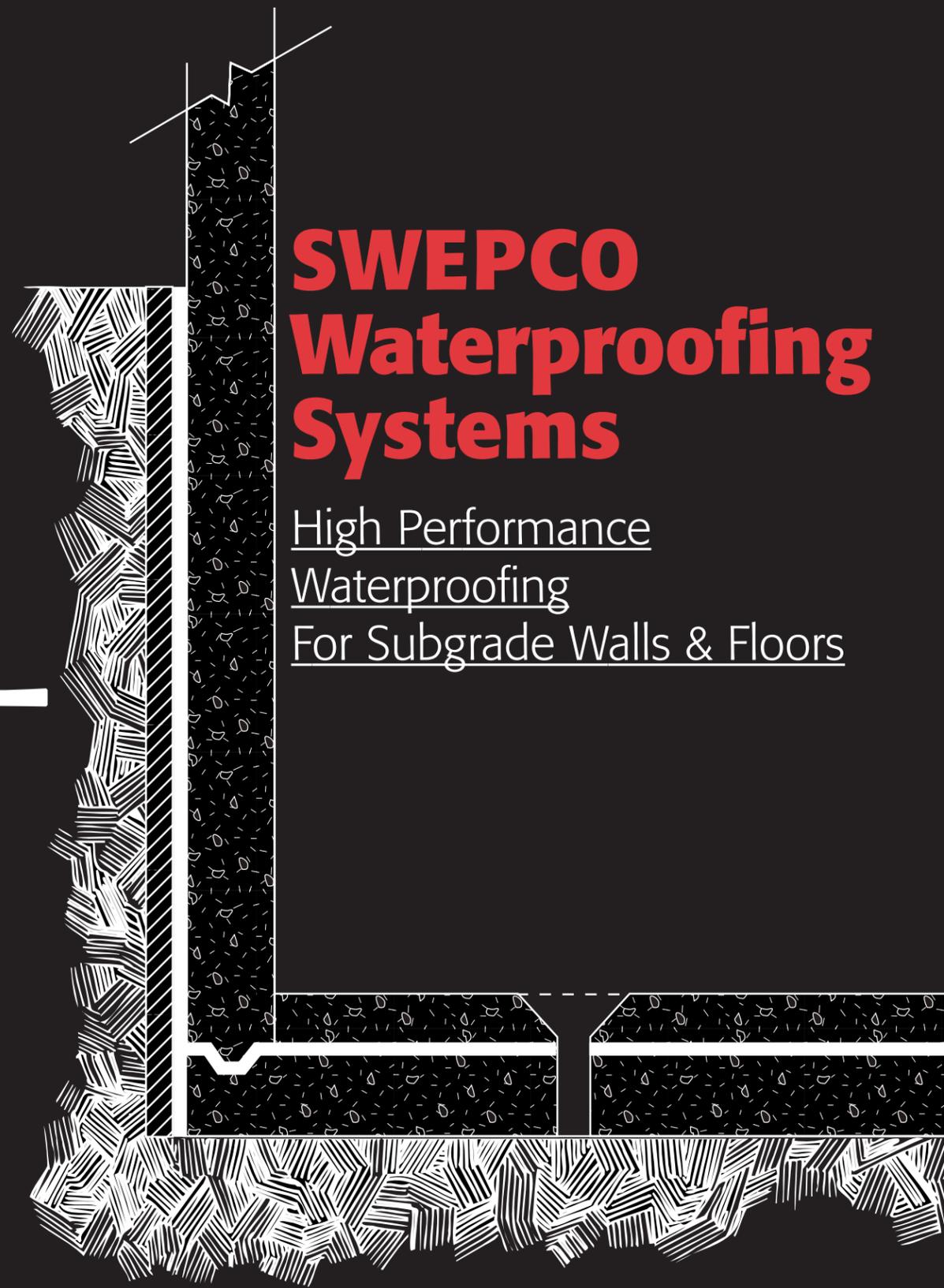


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subgrade
waterproofing



SWEPCO Waterproofing Systems

High Performance
Waterproofing
For Subgrade Walls & Floors



Quality • Performance • Durability • Versatility

SWEPACO Waterproofing Systems

High Performance Waterproofing For Subgrade Walls & Floors

- quality ingredients, products and engineering
- unsurpassed durability and long term reliability
- lightweight dampproofing for moisture protection
- heavy duty reinforced waterproofing systems for protection from hydrostatic water conditions
- superior perm ratings
- excellent adhesion, tensile strength, flexibility
- extra reinforcement for all cold joints and other stress points
- can remain exposed to accomodate long construction delays or schedules
- fast installation, fewer installation problems
- guaranteed to perform

The challenge is as old as construction itself . . . how to keep moisture out of below grade structures. Whether it be basements, tunnels, conduits, tanks, utility shafts or any other type of masonry or concrete construction, ground water will find its way in if the structure is not designed to prevent it.

If the groundwater level has not been lowered with effective subgrade drainage systems, hydrostatic water pressure forces water into minute flaws in unprotected or poorly protected concrete and masonry, resulting in active water leaks, seepage, weeping, staining and general deterioration of the concrete structure and interior components.

When hydrostatic water pressure is not present, capillary action causes concrete to absorb ground moisture after rains or runoff.

In either case, exposure to salts, acids and alkalis and alternate wetting and drying cycles deteriorate and weaken concrete, masonry, structural reinforcing steel and internal wall components. The result is shortened life span for the entire structure or, at best, extensive structural maintenance. Chronic mold, mildew, dampness, staining and chipping and peeling of interior surface coatings are common problems as well. Without effective waterproofing systems, costly, long term maintenance problems are inevitable.

The consequences of ineffective below grade moisture control clearly make quality waterproofing systems inexpensive by comparison.

Fortunately, when it comes to reliable, long term below grade dampproofing and waterproofing solutions, you need

look no further than Southwestern Petroleum Corporation . . . the company with seven decades of waterproofing experience.

ENGINEERED FOR RELIABILITY

Years of experience have proven that no single waterproofing system is capable of solving the diverse application requirements encountered in today's subgrade construction. For this reason, there are a number of SWEPACO Waterproofing Systems, each designed with a specific function in mind.

SWEPACO Waterproofing Systems are available for the full range of below grade applications . . . from economical systems to dampproof against normal ground moisture to guaranteed waterproofing protection for significant hydrostatic water exposures. With this array of systems, today's engineers, architects and specifiers have the ability to choose the most cost effective solution for the application.

QUALITY INGREDIENTS

Every product used in the engineering of a SWEPACO Waterproofing System is carefully selected and formulated with the finest ingredients . . . ingredients not found in other waterproofing products. Raw materials like "Heart of Texas" Asphalt® and finely milled blue black slate and proprietary chemical

additives like Zonamine® and ZHD-7® are first selected and then tested rigorously under stringent ISO 9000 Certified Quality procedures. This attention to detail at the ingredient level helps insure maximum performance from every component in the system.

VERSATILITY

SWEPACO Waterproofing Systems include solutions for both dampproofing and waterproofing exteriors of subgrade walls and floors. SWEPACO Waterproofing Systems can be used in both vertical and horizontal applications such as foundation and basement walls, tunnels, utility conduits, shafts, floor slabs, bathrooms, kitchens, laboratories and multilevel parking decks. They also include retrofit systems for post construction correction of common floor problems.

SUPERIOR PERFORMANCE

This combined focus on quality products, ingredients and engineering results in superior overall performance.

Superior perm ratings mean ground water or water vapor simply can't penetrate the waterproofing membrane.

Excellent abrasion and impact resistance to help prevent damage by careless work of other trades

before backfilling or installation of protection courses.

Excellent adhesion – high strength, flexible bond won't delaminate or permit water migration if surface is penetrated

Exceptional tensile strength and flexibility for protection from failure of the waterproofing membrane.

Extra strength and reinforcement at all cold joints and other high stress areas

Exceptional resistance to deterioration from soil borne moisture, salts, acids, alkalis or other contaminants.

Exceptional resistance to age hardening and oxidation.

Together, these properties yield durability and reliability, the two most important performance criteria for below grade waterproofing.

SCHEDULING FLEXIBILITY

Once installed, many waterproofing products require immediate protection from sunlight, moisture or accidental damage. SWEPACO Waterproofing Systems don't. The tough waterproofing membranes provided by SWEPACO Waterproofing Systems can remain exposed for months if necessary to accommodate prolonged construction schedules or delays.

GUARANTEED TO PERFORM

It is rare in the industry for a manufacturer to offer guarantees on subgrade waterproofing systems. But SWEPACO Waterproofing Systems come with a written guarantee, a guarantee which protects the building owner against leakage attributable to failure of the products used in the system. These guarantees are one more reason to feel confident in specifying SWEPACO Waterproofing Systems for all your subgrade moisture control requirements.

