

Premium Quality Roofing
& Building Maintenance Products



The Difference Is In The Ingredients.

Southwestern
Petroleum
Corporation

QUALITY

Only the best raw materials can create the best roofing products.

Technologically advanced products simply last longer. That is because properties like oxidation resistance, flexibility, bondability, tensile strength, elongation and thermal stability ultimately determine how long any waterproofing product will withstand the constant assault of nature.

Choosing the best ingredients is the first, and most important, step in the manufacture of a premium quality, long lasting product. That is why Southwestern spends so much time and energy sourcing, testing and formulating the world's finest raw materials.



"Heart of Texas" Asphalt.

Improved performance in most SWEPCO waterproofing products starts with a premium grade of asphalt. By definition, "Heart of Texas" Asphalt is asphalt which meets an extraordinarily narrow set of physical characteristics. To meet these specifications, raw petroleum crude is vacuum distilled to remove gases, fuels, lubricant fractions and various impurities. It is then "air blown" to establish a precise softening point. This step is critical because harder aphalt s age more rapidly and crack more easily in cold weather. Con-

... exhaustive sourcing and testing of raw materials has been the secret to SWEPCO performance since 1933.

versely, an asphalt which is too soft will flow or sag in hot weather. "Heart of Texas" Asphalt's optimum softening point results in an asphalt which retains many of the waterproofing oils which insure flexibility and longer weathering life.

High Strength Micro Fibers.

SWEPCO Products can start with a softer, longer lasting asphalt because several specialized ingredients are added to keep "Heart of Texas" Asphalt from flowing in hot weather. These types of ingredients are called stabilizers and there are many

types available. But all stabilizers are not equal. Some, such as asbestos, raise health issues. Others, like plastics, are difficult to disperse evenly in the asphalt. Still others, such as glass, have no absorbency, so they do not actually be-

come a part of the coating. Southwestern's special High Strength Micro Fibers are treated with surface active chemicals that insure superior absorption and even dispersion throughout the asphalt. This even distribution of fibers not only gives the asphalt thermal stability, but blocks harmful convection currents which accelerate oxidation of waterproofing aphalt s.

Dia-Seal & Finely Milled Slate.

In addition to High Strength Micro Fibers, Southwestern uses two other highly effective stabilizers, Dia-Seal and finely milled blue black slate. Dia-Seal is actually the finely ground fossilized remains of single celled marine plants. Blue-black slate is an

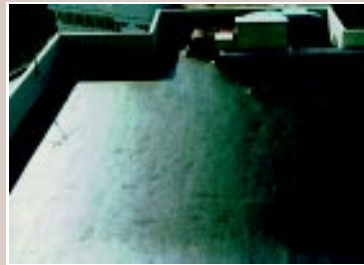
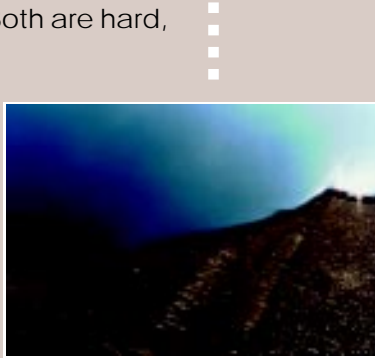
PERFORMANCE

extremely fine slate powder. Both are hard, opaque and highly resistant to chemical reaction. They also improve long term weatherability, toughness and resistance to industrial pollutants. Blue Black Slate also adds unsurpassed resistance to the deteriorating effects of acid rain.

Laboratory research has proven these stabilizers, High Strength Micro Fibers, Dia-Seal and finely milled blue-black slate, to be superior to limestone, talc, trap rock and marble, all of which are commonly found in other products because of their lower cost and widespread availability.

Zonamine.

Performance is also enhanced through the use of special chemical additives. One such additive is Zonamine, a proprietary chemical ingredient which significantly improves the bondability of SWEPCO Roofing Products. Zonamine helps break down surface tension and promotes complete "wetting" of surfaces. The result is greatly improved penetration, stronger bonding and better long term performance from SWEPCO Products.



ISO 9001

ZHD-7.

Another vital chemical additive used in SWEPCO Roofing Products is ZHD-7, a powerful oxidation inhibitor. Oxidation is the number one enemy of asphalt products. As soon as a roof coating is installed the sun begins attacking the asphalt.

Under exposure to ultra-violet radiation, free oxygen molecules in the asphalt react with the hydrocarbons composing the asphalt. This process eventually hardens or "oxidizes" the asphalt and makes it dry and hard.

ZHD-7 combats this natural aging process by consuming the free oxygen molecules before they can react with the crucial hydrocarbon molecules. This remarkable ingredient is one important reason SWEPCO Roofing Products tend to stay soft, resilient and waterproof after other products become hard, brittle and inflexible.

Only The Best.

A quality product can only be made with quality ingredients. Hundreds of other ingredients, each with their own function, are needed to manufacture Southwestern's

entire line of premium quality roof products. In each case, only the best ingredient is selected. High quality ingredients invariably cost more than the common ingredients used in competitive materials. But they always

pay for themselves in terms of longer life and better performance.

QUALITY

Quality products don't just happen.

When it comes right down to real world performance, it's quality ingredients that make the difference. And no one, **absolutely no one**, uses higher quality ingredients or more advanced formulation and blending technologies than Southwestern Petroleum Corporation:

■ **"Heart of Texas"**

Asphalt — Provides the ultimate in flexibility, bondability, resistance to thermal shock and long term weathering.

■ **High Strength Micro**

Fibers — Provide resistance to flow in hot weather, retard oxidation of the asphalt and improve tensile strength for added resistance to cracking.

■ **Dia-Seal** — Provides enhanced resistance to weathering, checking, alligating and erosion.

■ **Finely Milled Blue Black Slate** —

Provides unsurpassed resistance to acid rain and industrial pollutants for long term weathering.

■ **ZHD-7** — Slows down the natural aging process of asphalt by providing extra resistance to ultra-violet radiation which causes oxidation and polymerization.

■ **Zonamine** — Insures optimum bonding in the presence of surface moisture, a common problem in roofing.

■ **No Asbestos** — SWEPCO Products contain no asbestos.



These are just a few of the many ingredients used in the manufacture of SWEPCO Roofing & Building Maintenance Products. And they won't be the last.

Our research staff constantly evaluates SWEPCO's full line of products, searching for newer, better materials.

But we don't stop there.

As we refine, blend, manufacture and package SWEPCO Products, skilled technicians make certain every ingredient is consistent in quality and quantity.

These technicians perform as many as 42 quality control tests on any one product . . . then, and only then, do we stamp a Quality Assurance

Number on every container shipped from that production run.

All of these functions are performed in strict compliance with our ISO 9001 & 9002 Certified Quality Systems and the watchful eye of Bureau Veritas Quality International, the world's most prestigious and demanding ISO certification body.

This constant pursuit of excellence is your assurance that the products you receive meet the highest standard in the industry . . . the SWEPCO Standard.



Southwestern Petroleum Corporation