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Understanding Hot Fluid Applied Rubberized Asphalt

There is a significant difference between standard oxidized asphalt ASTM D-312 Types I, II, III and IV and unoxidized asphalt materials. The ASTM D-312 products utilize a petroleum derived material called "flux" which is put into a still, heated while air is induced, which essentially ages the asphalt flux to a point that's within the softening point range of the desired end product. The composition of the flux can vary widely and directly relates to the final products long term performance characteristics. These products can and do vary greatly in their performance properties, depending on their source and the competence of the processor.

On the other hand, although rubberized asphalt starts with a petroleum base flux, the make-up of that base flux is highly controlled and must exhibit specific characteristics to be considered as a feedstock for polymerization. Only about 20% of all asphalt flux is suitable of polymer modification.

Rubberized asphalt is not an oxidized material. It has derived its properties from chemical engineering, not from a premature aging process.

To derive the end product, the highly selected base asphalt is modified with SBS or SEBS polymer for improved water resistance and elongation, elasticity and cold flex characteristics. Crumb rubber is added to provide body as well as enhancing the materials flexibility properties. A small amount of filler is used to give the product the desired consistency for proper application. When processed, this combination of components provide a product with superior moisture resistance, even under ponded water conditions, elongation and flexibility properties at temperatures below 0°F and well below most other waterproofing products. Polymer modified bitumens also offer excellent warm temperature self-healing properties and a 40+ year proven record of superior performance.

Hot Fluid Applied Rubberized Asphalt Systems Offer:

- Seamless reinforced monolithic assembly
- Membrane thickness including the protection course is a minimum of 265 mils (over ¼ inch)
- Total adhesion prevents water migration under the membrane in case of a leak
- Self-healing properties • High abuse resistance to construction traffic
- Resistant to ponding water – ideal for wet environments
- Remains flexible at low temperatures - Below -10°F
- 45+ year proven performance record
- No special application skills required
- Very cost competitive with other high performance systems
- Many sustainable qualities including the used of recycled materials and the opportunity for recycling
- Used in a protected configuration (IRMA), the membrane should out-last the buildings useful life.