

Description

DynaKap FR CR is a fire-resistant, elastomeric modified bitumen cool roof cap sheet incorporating the features of a strong composite fiber glass/polyester mat. The composite reinforcement is coated with a blend of SBS (Styrene-Butadiene-Styrene) rubber, high-quality asphalt and fire-retardant additives. The elastomeric asphalt blend has full recovery properties after 100% elongation and lends elasticity and flexibility to the sheet. The inorganic fiber glass reinforcement, in conjunction with the polyester, provides stability, toughness and puncture resistance to the product and resists moisture absorption. The reinforcement also provides high tensile strength and affords better natural resistance to the other factors which affect roof performance. The covering layer of a white, acrylic coating combined with ceramic-coated roofing granules provides durability along with superior resistance to damage from weather and foot traffic, as well as the benefits of a reflective, emissive surface.

Use


DynaKap FR CR is designed for use as a premium modified bitumen sheet in UL® fire-rated, multiple-ply roofing systems. Unlike many modified bitumen products, DynaKap FR CR enjoys UL Class A ratings in numerous constructions, both new and re-roof, without the use of additional surfacings. It is ideal for low-slope applications (inclines up to ½" per foot [41.6 mm/m]), and is recommended for this application with Types III and IV asphalt. For slopes from ½" to 3" per foot (41.6 to 250 mm/m), only Type IV asphalt is recommended. DynaKap FR CR may also be installed in JM MBR® Cold Application Adhesive. Because of its superior weatherability, durability and handling characteristics, DynaKap FR CR may be used both for a finished cap sheet and as a flashing material; however, we require using DynaFlex® for flashing applications in many specifications. This product is not to be installed using heat-welding application techniques.

Advantages

- Combining a superior composite reinforcement with a durable SBS blend ensures long-term performance in the harshest rooftop environments.
- The elongation and recovery properties of the SBS blend allows the product to easily accommodate the continual expansion and contraction strains experienced on all roofs.
- The exceptional weathering provided by its mineral surfacing, coupled with a tough, puncture-resistant fiber glass/polyester/composite reinforcement, enables the product to easily withstand the rigors of rooftop traffic.
- The product's flexibility and dimensional stability provide ease of handling, resulting in quick installations.
- Fire-retardant formulation.



Energy and the Environment

 <p>CRRC COOL ROOF RATING COUNCIL MEMBER</p>	Solar Reflectance	Initial 0.76	Weathered 0.61
	Thermal Emittance	0.85	0.92
	Rated Product ID	0662-0007	
	Licensed Manufacturer ID	0662	
	Classification	Production Line	
<p><small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary.</small></p> <p><small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.</small></p>			

LEED®	Recycled Content: 0%	SRI 92
	Producing Locations: Oklahoma City, OK	

Refer to the Material Safety Data Sheet and product label prior to using this product.

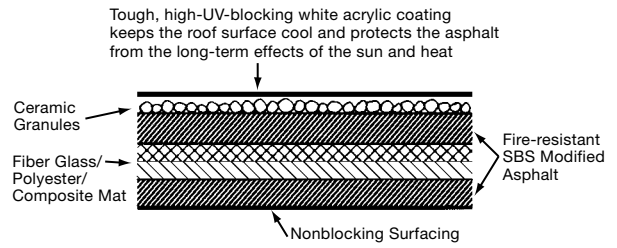
Typical Physical Properties*

Material meets or exceeds the criteria for ASTM D 6162, Type II, Grade G.

Thickness	160 mil (4.06 mm)
Tensile Strength @ 0°F (-18°C)	
Machine Direction	150 lb force/in. width (26.25 kN/m)
Cross Machine Direction	125 lb force/in. width (21.88 kN/m)
Elongation @ 0°F (-18°C)	
Machine Direction	4.0%
Cross Machine Direction	4.0%
Tensile-Tear	
Machine Direction	150 lb/in. (26.25 kN/m)
Cross Machine Direction	125 lb/in. (21.88 kN/m)
Low Temperature Flexibility	-10°F (-23°C)
Dimensional Stability	
Machine Direction	0.20% change
Cross Machine Direction	0.20% change

Sizes

Roll size	100 ft ² (9.29 m ²)
Roll weight	113 lb (51.26 kg)
Roll length	32' 10" (10.01 m)
Roll width	39 ⁵ / ₈ " (1 m)



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* Material tested in accordance with ASTM D 5147 Standard Test Method for Sampling and Testing Modified Bituminous Sheet Materials.