

Black-Knight®/Black-Stallion® Cold



OVERVIEW & FEATURES

Black-Knight/Black-Stallion Cold is a specially formulated polymer-modified, cold-process roofing bitumen. It is a unique blend of refined tars, solvents, rubberized polymers, fibers and fillers that offer improved performance and superior sag resistance. Black-Knight/Black-Stallion Cold offers improved flexibility and impact resistance over conventional coal tar.

Black-Knight/Black-Stallion Cold is designed to be used as an interply adhesive for Garland's cold-applied Millennium® roof systems; as a flood coat over new and existing hot asphalt and coal tar built up roofs and modified bitumen roofs; or as a premium restoration material for previously graveled roofs.

Resistance to Aging & Weathering - Coal tar pitch provides natural resistance to moisture, chemicals, ultraviolet radiation, and aging. Black-Knight/Black-Stallion Cold's polymer-enhanced coal tar combines the water-resistance of coal tar with the strength and flexibility of advanced polymers for unmatched durability. A tight molecular structure allows Black-Knight/Black-Stallion Cold to maintain a natural resistance water, air and common chemicals that cause oxidation to the roof's surface.

Cost Effective - Black-Knight/Black-Stallion Cold offers superior long-term performance and low maintenance costs to reduce the life cycle costs associated with the roofing system. The high quality and performance of Black-Knight/Black-Stallion Cold will save building owners money year after year.

Self-Healing - Black-Knight/Black-Stallion Cold has cold-flow properties that allow it to slowly heal hairline cracks and alligating with elevated rooftop temperatures. Over the years, this process will continue, providing the owner with a long-term roofing solution by extending the life of the roofing system.

Low Odor - Due to its cold-applied nature, Black-Knight/Black-Stallion Cold eliminates many of the emissions associated with conventional coal tar.

APPLICATION

Black-Knight/Black-Stallion Cold can be applied by brush, spray, or squeegee as any other conventional, high-performance roof coating.

Interply Adhesive - When used in conjunction with Millennium Base and a Millennium modified membrane, Black-Knight/Black-Stallion Cold should be applied at 1.5-2.0 gal./100 sq. ft. (0.61-0.82 l/m²). Cold applied Millennium roof systems should not be installed above a 1:12 slope. For specific information on a cold applied Millennium roof system, please contact a local Garland representative.

Flood Coat & Restoration - Application for a flood coat on a new roof should be 4-5 gal./100 sq. ft. (1.63-2.04 l/m²); application on an existing roof where gravel has been removed should be 6-8 gal./100 sq. ft. (2.45 - 3.26 l/m²). Four hundred pounds (400 lbs.) of gravel per 100 sq. ft. should be applied following the application of Black-Knight/Black-Stallion Cold.

Black-Knight/Black-Stallion Cold should not be applied on roofs with a slope exceeding 1-1/2:12. Backnailing is required for slopes over 1/2:12. Please contact a local Garland representative for specifics.

PRECAUTIONS

- Do not use Black-Knight/Black-Stallion Cold over rubber or plastic substrates
- Use with adequate ventilation
- Keep away from open flame
- In depth safety information can be obtained from Garland's Contractor Safety Guide, SDS Sheet or the NRCA's Safety Awareness video
- Do not thin
- Do not use where product may come in contact with potable water
- Keep material warm prior to application when at or below 50°F (10°C). Store in a heated warehouse between 70°F-80°F at least 24 hours.
- As with all cold process materials, full cure is dependent on application rate, time and temperatures. Lingering odors are expected until product achieves full cure.
- Exterior use only
- Do not install as a flood coat over the StressPly SA system

Black-Knight/Black-Stallion Cold

| Technical Data | Black-Knight/ Black-Stallion Cold |
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| Viscosity (seconds) Stormer Viscometer, 600 g | 125-175 sec. |
| Flash Point (ASTM D 93) | 105°F (40°C) |
| Non-Volatile (ASTM D 4479) | Typical 77% |
| Weight per gallon Typical | 9.4 lbs./gal (1.126 g/cm ³) |
| Drying Time to touch @ 70°F (21.1°C) | 4-6 Hours |
| Shelf Life | 1 Year |
| Wet Film Thickness Interply New Flood Coat Restoration | 32 mils (812.8 microns) 64-80 mils (1,625.6-2,032 microns) 96-128 mils (2,438.4-3,251.2 microns) |
| Coverage Interply New Flood Coat Restoration | 1.5-2.0 gal/100 sq. ft. (.61-.82 l/m ²) 4-5 gal/100 sq. ft. (1.63-2.04 l/m ²) 6-8 gal/100 sq. ft. (2.45-3.26 l/m ²) |
| Packaging | 5 gallon (18.9 l) pail 55 gallon (208.2 l) drum |

| Eco Facts | Black-Knight/Black-Stallion Cold |
|-------------------------|----------------------------------|
| VOC | 270 g/l |
| Recycled Content | 70% |

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.



Please refer to the product information, Material Safety Data Sheet, and labeling for the potential risks and benefits. Exposure to this product may cause skin and respiratory tract irritation; prolonged skin exposure may result in skin cancer; inhalation of vapors may cause central nervous system effects and long term exposure has been associated with kidney, bladder, scrotum, and lung cancer.

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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