

White-Knight – 7831-15L / 7833-15L

Technical Data Sheet



Product Description

White Knight is a multi-purpose, single component polyurethane, liquid waterproofing membrane designed to maintain, restore and upgrade the performance of existing and aged roof systems. White-Knight® can be used to coat the entire roof or as a repair material for maintenance applications

Features:

- ✓ Waterproofing protection
- ✓ Quick application
- ✓ Ability to withstand stress
- ✓ Flame free
- ✓ Compatible with a variety of substrates

Usage

White-Knight can be used to coat an entire single ply, metal, asphalt, asbestos cement or modified roof systems. It can also be used as a repair material for maintenance applications.

Application

Substrates to which the system is to be applied must be dry, clean and free from loose particles, fungal growth, paint, grease, oil or other contaminants which may affect the adhesion. Power wash the entire surface with a biocidal wash. Defects in the substrate, eg. cracks should be repaired prior to application. Where necessary, the substrate should be primed in accordance with specification given. Any exposed metal surfaces to be included in the coating schedule should be wire brushed or mechanically abraded to remove rust/ scale or oxidation, returned to a clean, bright metal wherever possible.

Installation

Application can be performed by brush or roller. An initial application of White-Knight Base Coat is applied to the clean prepared substrate at the specified application rate. Whilst still wet, Garmat fibreglass matting is laid and embedded into the wet coating using a brush or roller until fully saturated allowing at least a 50 mm overlap over adjacent areas and ensuring sufficient White Knight material is applied to these areas. A check should be made to ensure that sufficient White Knight material has been applied by identifying areas of exposed matting or pin holing. If necessary, additional material may be applied to correct any visible faults. Once cured, a second coat of White Knight is applied at the specified coverage rate. Once cured and if specified a third coat of White Knight can be applied at the specified coverage rate.

WARNING: Areas on the roof which pond water should be cleaned on regular basis to avoid biological and microbial attack.

Limitations/Precautions

- Work must not be carried out if rain is imminent and the ambient temperature at the time of laying must lie between 5°C and 35°C.
- In areas where the roof is subject to foot traffic, it is recommended to apply walkway pads or a granule walkway surface. Excess water on the roof surface can cause the roof to become slippery.

Storage and handling

The product should be stored unopened in a dry condition at a temperature of 5°C -25°C. This will ensure the stated shelf-life. The adhesive will have a limited life once the container is opened.

Temperature and timings

All information on temperature and timings represents normal working conditions and is provided as a guideline only. However, please contact Apollo for advice if you wish to operate outside of these parameters.



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Technical Data	Quick-Prime
Base	Polyurethane
Appearance	Light Grey (7833-15L) Dark Grey (7831-15L)
Temperature resistance	-30 to +80°C
Application temperature	5-30°C
Density	1.50kg/L
Viscosity	7000-12000cps (20°C)
Cure time 5°C	18-24 hours
Cure time 10°C	12-18 hours
Cure time 20°C	6-12 hours
Moisture tolerance	1-2 hour(s)
Storage	5-25°C
Shelf Life	6 months
Environmental	See MSDS
Packaging size	15L pail

Coverage Rates	Substrate		
	Smooth	Intermediate	Rough/Porous
White-Knight 10 Year Coating System			
1 st Layer	1.0 l/m ²	1.25 l/m ²	1.5 l/m ²
2 nd Layer	0.5 l/m ²	0.5 l/m ²	0.5 l/m ²
White-Knight 15 Year Coating System			
1 st Layer	1.0 l/m ²	1.25 l/m ²	1.5 l/m ²
2 nd Layer	0.75 l/m ²	0.75 l/m ²	0.75 l/m ²
White-Knight 20 Year Coating System			
1 st Layer	1.0 l/m ²	1.25 l/m ²	1.5 l/m ²
2 nd Layer	1.0 l/m ²	1.0 l/m ²	1.0 l/m ²
White-Knight 25 Year Coating System			
1 st Layer	1.0 l/m ²	1.25 l/m ²	1.5 l/m ²
2 nd Layer	0.75 l/m ²	0.75 l/m ²	0.75 l/m ²
3 rd Layer	0.75 l/m ²	0.75 l/m ²	0.75 l/m ²

Under REACH regulation, all users of polyurethane products made by reacting diisocyanate are required to complete relevant training in relation to safe use. As of 24th August 2023, training is required for all professional users of PU products (with a total monomeric diisocyanate concentration of > 0.1%) within the EU and UK. As a manufacturer, we have a responsibility to notify you of the training requirements. It is down to the users and their employees to complete the training and keep records.

To participate in the free training programme, go to the platform and use the code FEICA_21_G
Access to the training platform: <https://safeusediisocyanates.eu/>



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