

KING-GUARD FLEX[®] FR Spray Polyurea Intumescent Heavy Duty Spray Applied Coating System



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DESCRIPTION

KING-GUARD FLEX[®] FR is an ultra rapid curing spray applied polyurea elastomeric protective coating and lining system, offering a high degree of mechanical and chemical protection for concrete, asphalt and metal surfaces in aggressive containment environments. Typical application thickness 2 - 4mm.

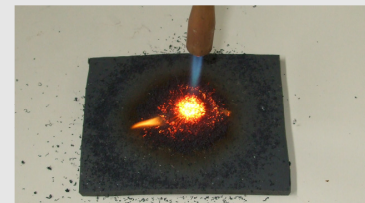
KING-GUARD FLEX[®] FR is designed to provide a flame resistant, durable, chemical resistant lining for secondary containment applications and as a surface coating for metal, concrete and wood. It has excellent hydrolytic stability and is resistant to hydrocarbons, seawater, low concentration acids, sewerage, moderate abrasion, UV and high temperatures.

KING-GUARD FLEX[®] FR is a 100% solids, two-component, 1:1 ratio material with elongation properties exceeding 200% and tensile strengths exceeding 1500psi.

KING-GUARD FLEX[®] FR is applied using a plural component heated pump system with an effective pot life of 3 - 5 seconds. This product can be applied in temperatures ranging from -10⁰C to 50⁰C and can be utilized within 20-30 minutes (light duty).

APPLICATIONS

Secondary containment bund linings – with geotextiles
Mine site fuel depots – Concrete bunds, sumps, drains and pit Linings
Hazardous chemical containment – Oil & gas refineries
Power stations – Fuel, oil & transformer bunds
Structural steel protection



PHYSICAL PROPERTIES

Gel Time	3 - 5 seconds
Tack Free Time	45 seconds
Light duty foot traffic	20 minutes
80% Cure @ 21 ⁰ C	8 Hours
Application thickness	2 - 4mm
Tensile Strength, psi	1500 - 2000
Tensile Elongation, %	≥ 200
Shore Hardness, D	50 ± 5
Density [g/cm ³]	1.1 ± 0.03
Service Temperature	minus 50 – 200 ⁰ C
Flame Spread Classification, ASTM E 84	20
Smoke Developed Classification, ASTM E 84	115

CHEMICAL RESISTANCE (Guide Only)

Hydrochloric Acid 10%	Resistant	Sulphuric Acid 20%	Resistant
Sodium Hydroxide 50%	Resistant	Ammonium Hydroxide 20%	Resistant
Nitric Acid 1%	Resistant	Diesel Fuel	Resistant
Heavy Duty Detergent	Resistant	Sodium Chloride (all conc.)	Resistant
Liquid Nitrogen Fertilizer	Resistant		

(Consult Asset Systems for chemical/temperature/service exposure approval)

TECHNICAL ASSISTANCE: Phone + 61 8 9272 1528 Fax + 61 8 9370 1113 Mobile Service 0407 942 002
Web: www.assetsystems.com.au

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