



# **KING-GUARD FLEX<sup>®</sup> 6080 Spray Polyurea**

## **High Abrasion, Higher Elongation - Heavy Duty Elastomer Coating**

DS.6080-02-2008

### **DESCRIPTION**

**KING-GUARD FLEX<sup>®</sup> 6080** is a rapid curing spray applied polyurea elastomer coating and lining system, offering a high degree of mechanical friction wear protection for metal and concrete surfaces in aggressive environments. Typical application thickness 3 - 6mm.

**KING-GUARD FLEX<sup>®</sup> 6080** is a premium performance elastomer coating for the preservation and repair of surfaces which may have been damaged or degraded by chemical attack, time or mechanical wear. It has excellent hydrolytic stability and is resistant to low concentration acids, alkalis, hydrocarbons, seawater, abrasion, sunlight and high temperatures.

**KING-GUARD FLEX<sup>®</sup> 6080** is a 100% solids, two-component, 1:1 ratio material with elongation properties exceeding 400% and tensile strengths exceeding 14 MPa.

**KING-GUARD FLEX<sup>®</sup> 6080** is applied using a plural component heated pump system with an effective pot life of 10 seconds. This product can be applied in temperatures ranging from -10<sup>0</sup>C to +50 <sup>0</sup>C and can be utilized within 60 minutes (light duty / water immersion).

### **APPLICATIONS**

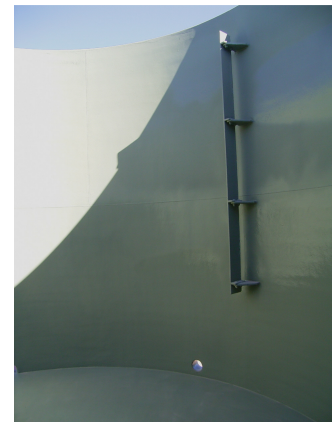
*Abrasive Slurry Tanks, Chutes & Hoppers  
Trommel Frames, Underpans & Screens  
Agitator & Fan Blades  
Expansion Joint Membranes*

*Rail Car Linings – Ore Transportation  
Chequer Plate Floor Decking Membrane  
Steel Expansion Joints – Spill Containment  
Structural Steel Protection – Columns & Beams*

### **PHYSICAL PROPERTIES**

Gel Time	10 seconds
Tack Free Time	30 - 60 seconds
Light duty foot traffic	1 - 2 hours
80% Cure @ 21 <sup>0</sup> C	24 Hours
Tensile Strength, [N/mm <sup>2</sup> ] ASTM D-638	≥ 14
Tensile Elongation, %	385 - 475
Shore Hardness, A	90 ± 5
Thermal Resistance (dry)	minus 40 to 130 <sup>0</sup> C
Abrasion Resistance [mm <sup>3</sup> ], DIN 53516	140 ± 30%
Peel Strength (steel) [N/mm] DIN 53531	≥ 10
Water Vapour Permeation, ASTM E96, [ng/cm <sup>2</sup> *h *Torr]	0.05 - 0.09*
Water Vapour Permeability, ASTM E 96, 4mm	12 - 14g/m <sup>2</sup> */day

*\* The values are determined for material thickness of 4mm at a temperature of 38<sup>0</sup>C*



### **CHEMICAL RESISTANCE (Guide Only)**

Hydrochloric Acid 10%	Resistant	Sulphuric Acid 10%	Resistant
Nitric Acid 1%	Resistant	Sodium Hydroxide 50%	Surface discolouration
Diesel Fuel	Resistant	Heavy Duty Detergent	Resistant
Sodium Chloride	Resistant	Motor Oil	Resistant

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

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