



# **TECHNICAL DATA**

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## **TEST RESULTS On EasyPrime & EasyFlex**

### **HEAT RESISTANCE:**

EasyPrime and EasyFlex were applied to sandblasted coupons and smooth, cold rolled steel coupons. The coupons were left to cure at 22°C(72°F) for seven days. They were then placed in an oven at 150°C (304°F) for 60 days. There was no visible cracking, delaminating or discoloring. The next day they were placed back in the oven at 200°C (392°F). After two days the color changed to brown on EasyFlex. At twenty-one days the coating cracked on the smooth cold rolled steel panel. After thirty days there was no blistering or cracking on the sand blasted panel. Royal would recommend using our system for continuous dry heat applications up to 150°C (278°F) with spikes up to 200°C(328°F) for short periods.

### **PER-CENT SOLIDS:**

A small amount of EasyPrime was poured into a tin container and weighed. After drying at ambient temperature for 72 hours. It was reweighed with no loss of weight – 100% solids. Another container was weighed for EasyFlex and the results were the same.

Separate containers of EasyPrime and EasyFlex were prepared and each was weighed. They were then placed in an oven @100°C (212°F) for four hours. The completely cured coatings were then reweighed; 99.7% of EasyPrime and 99.8% of EasyFlex were retained.

### **CRUDE OIL RESISTANCE:**

Each product was made and poured into small tins and let cure for seven days at ambient conditions. The tins were removed and the chips were weighed for each product. The chips were then placed in a beaker of crude oil for thirty days. They were then removed, washed and cleaned; within ten minutes after removal they were reweighed and showed no weight gain. Royal recommends coating the bottom of crude oil tanks with EasyPrime and EasyFlex.

Test Results on EasyFlex only:

## **AVIATION FUEL WITH DEICING AGENT & SKYDROL AVAIATION HYDRAULIC OIL**

EasyFlex was poured into small tins and let cure for seven days at ambient lab conditions. The tins were removed and the chips were weighed. The chips were then placed in a beaker for thirty days. Some were immersed in aviation fuel containing a de-icing agent; other were placed in a beaker containing Skydrol aviation hydraulic fluid; after thirty days they were removed, washed and towel dried within five minutes

### **Weight Gain – 30 Day Immersion**

Skydrol	0.0%
Aviation Fuel	1.0%