

THE RESULTS OF FIRE TESTS

Testdate

Januari 14 2015

Test goal

The goal of this first test is for getting a general impression of the non-flammable and fire retardant specifications of RZ-ECOSEAL®.

Purpose of Testing.

RZ-Ecoseal, which is applied on various test surfaces, expose to an open flame. This to test and determine the influence of direct flame (burner on the sealing) and indirect fire (burner on the outside surface test).



Brief Description test.

The sealed (coated) surfaces are exposed to direct flames and heat with a propane gas torch. On the two plates the sealing (coating) has been applied on a clean surface, the two tested 90 degrees ducts are from an existing grease extraction system and sealed (coated) with RZ- Ecoseal directly to a (very) greasy surface! This was done to test at the same time the reaction of RZ-ECOSEAL as the covert layer of grease was ignited by heat and oxygen. In one plate and 90 degrees duct is heat and fire applied directly to the coating. At the other plate and 90 degrees duct is the untreated side heated in a way that the sealing (coating) does not come into contact with flames, but endures the heat.



Results

When applying fire (direct and indirect) on the sealing (coating), it appears in this test , that the coating does not burn !!

At last a discoloration occurs and the coating gets black, but it does not burn, even at high temperatures.

In the 90 degrees duct , wherein the coating is applied to a high-greasy (old grease!!) surface, the grease starts to melt due to the high temperature and ultimately ignites.



Preliminary conclusion after this 1st test

- RZ- Ecoseal itself is non-flammable.
- RZ- Ecoseal is highly flame-retardant.
- RZ- Ecoseal should be applied, for optimal fire-retardant and/or flame-retardant effect, to clean surfaces.
- RZ- Ecoseal upon exposure to heat and flames (directly or indirectly) will not foam.

