Test Report
Magnetic foil PF 5014 – 0,85mm

Date: 20.05.2006

Purpose of test

It is intended to examine the performance of the magnetic foil to different types of lacquers. Mainly, a possible conglutination of the foil with the laquer shall be demonstrated, further more it is intended to determine whether dampness collects beneath the foil, and/or within the lacquer itself.

Responsible: Th. Reuter, QS Start: 15.05.06

Set up of test

Four pieces of magnetic foil of qualities PF 5014/0,85mm – (size 450x120mm) – black, screen printed on one side are used for the test. Two of these will be attached to a car door and two to a car bonnet. The door is painted with a water-base lacquer, the bonnet with a solvent containing lacquer.
Both vehicle parts are positioned upright against a wall in open air, facing south-west. The parts are to remain in this location and position for 4 months, until the 18th 09th 2006.
One of the magnetic pieces on each of the car parts will be treated according to the handling instructions. In order to display an extreme case of mishandling, the two other magnetic pieces will not be removed from the lacquer for the whole time of the test.
The correctly handled foils will be checked in a 2-week turn and the results monitored. The other two pieces will be removed only at the end of the test and the result monitored.

Monitoring
Protocol of correctly handled foils

Date	Conglutinations		Dampness		Comments
	yes	no	yes	no	

Result of incorrectly handled items

Date	Conglutinations		Dampness		Comments
	yes	no	yes	no	
			slight, spot-type stick-on residues, but no conglutinations		

Summary

No conglutinations were found either on the solvent containing laquer, nor on the water-based lacquer. Only the water-based lacquer showed slight stick-on residues. However, these did not cause damage to the foil or the lacquer. There was merely a zip fastener-type noise when removing the foil.

Further, upon conclusion of the test, there was no spot formation caused by dampness *within* the lacquer or on top of it.

Since, by this test, it was not possible to determine the cause of possible conglutinations when handling the foil incorrectly, a new test will be started using a heating furnace.

QS, Rheinmagnet GmbH **Neunkirchen, 18.09.2006**

Rheinmagnet	Made by:	Tested and released by:	Date:
Horst Baermann GmbH	Reuter	H. Neukirch	21.06.06