













# **DECORAL SYSTEM SRL**

Viale del Lavoro, 5 - Arcole 37040 (Verona) ITALY - Tel. +39 045 7639111 - Fax +39 045 7639100 Email: info@decoral-system.com - Website: www.decoral-system.com



# Hyper-durable films Higher durability than ever!



- Hyper-durablefilms
- Qualitydecoral Gold
- High durability
- Special dyes
- Combination with class 2 powders

MRK-012-0002



### **Hyper-durable films**

For Hyper-durablesublimation films (8XXXX/YY L4series) the innovation is connected to the use of high resistance cromophoresused in a printing line.

### **Test and samples**

To evaluate the resistance of the finishes, accelerated weathering tests are mainly used. These tests are carried out in lab, it means they are controlled and repeatable. They are meant to accurately simulate and recreate some of the natural exposure factors.



Pic 1: accelerated weathering test devices

Sample to be tested was made by permutating standard and Super-durable powder (Class 2)with sublimation films printed with standard and Hyper-durable dyes. Following combination was obtained:

- DS 716 + 1401/01 L(Standard PCwith Standard film)
- DS 716 + 81401/01 L4(Standard PCwith Hyper-durable film)
- DS 0716 S + 1401/01 L(Class 2 PC with Standard film)
- DS 0716 S + 81401/01 L4(Class 2 PC with Hyper-durable film)

Sample tested on accelerated weathering test machines for 1000 and for 2500 hours.

## Results

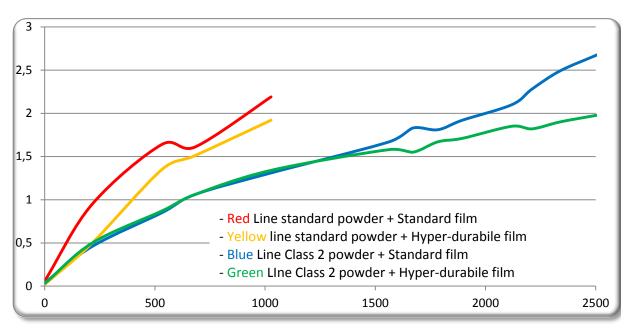
Graph,in thefollowing page, plot  $\Delta E$  behaviouragainst elapsed time for the previous different samples. See how the Decoral System sublimation film Hyper-durable Series reduces significantly the value of  $\Delta E$  both samples where this film was used; on standard powder and on super-durable powder, respectively yellow linear d green line. The improvement, obtained by Decoral System Hyper-durable sublimation films, is noticeable even from the comparison of same powder coating base: yellow line versus the red line, for the standard powder, and green line versus blue line for the Super-durable version (class 2).

### Conclusion

Choosing hyper-durable sublimation films (8XXXX/YY L4 series) and DS 04XX S or DS 07XX S series powder coatings we can get decorated surfaces with a very high resistance to weathering agents.



### **Graphics and pictures**



Graph1:ΔE trend in function time (hours)





Pic 2: tested samplesfor 1000 hours (Standard powder) and 2500 hours (class 2 powder)