



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

Dipartimento di Scienze e Tecnologie Alimentari
per una filiera agro-alimentare Sostenibile - DiSTAS

Area di Tecnologie alimentari, enologia e ambiente

Piacenza, 21st December 2018

TEST REPORT N° 606-A/2018

Sample: IDROFARB (Cod. 600/601.1.001)

Company: G.FARBEX Sas Via Besenzone, 7- 29016 Cortemaggiore (PC)

TEST RESULTS

As commissioned to us by the Company G.FARBEX Sas, the product IDROFARB (Cod. 600/601.1.001) has been tested for Dirt pick-up, Odour release, Wet scrub resistance, Cleanability, Resistance to sanitization agents and Resistance to fungal growth according to UNI 11021:2002 " Paints and varnishes – Coating material and coatings systems for indoor environments with the presence of foodstuff. – Requirements and test methods".

The test samples were prepared following the application rate recommended by the company.

The Company provided the following documentation:

- the IDROFARB (Cod. 600/601.1.001) technical and safety data sheets;
- the statement that the components used do not contain butylhexylphthalate, dioctylhexylphthalate, 2-ethylhexylphthalate and substances classified as very toxic, toxic, carcinogenic, mutagenic, toxic to reproduction (except for biocides necessary for in-can preservation and fungal growth resistance as defined in Directive 67/548 /EEC as subsequently amended and supplemented);



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- the statement that the components used do not contain cadmium, lead, chromium VI, mercury;
- the declaration that the VOCs content is 18 g/L and that the aromatic volatile organic compounds are absent.

The results are summarized in the following table.

N°	Test	Method	Measured value	Specified value	Result
Essential requirements					
7.1	Dirt pick-up	UNI 10792	$\Delta L = 0,40$	$\Delta L \leq 3.0$	Pass
7.2	Odour release	Annex A	0,3	≤ 1	Pass
Particular requirements					
8.1	Wet scrub resistance	UNI EN ISO 11998:2006	$Ldft^{(A)} = 1,78 \pm 0,37 \mu m$	$Ldft \leq 5 \mu m$ after 200 washing cycles	Pass ^(B)
8.2	Cleanability	Annex B	$\Delta E = 1,19$	$\Delta E \leq 3.0$	Pass
8.3	Resistance to fungal growth	Annex C	0	≤ 1	Pass
8.5	Resistance to sanitisation agents	UNI EN ISO 2812-1 (Method 3)	No changes in appearance	No changes in appearance	Pass

^(A) Dry film thickness loss expressed in micron.

^(B) According to UNI EN ISO 11998:2006 and the paint classification based on the loss of thickness reported in UNI EN 13300:2002, the product examined belongs to Class 1 (loss of thickness between 1.41 and 2.15 μm).

According to the analytical evidence and the supporting documents produced by the Company, the product IDROFARB (cod. 600/601.1.001) is suitable for indoor environments with the presence of foodstuff, as stated in UNI 11021: 2002.



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In particular, the product IDROFARB (cod. 600/601.1.001):

- is suitable for walls, ceilings and for surfaces for which it is required the resistance to both washing and fungal growth;
- is suitable for surfaces that have to be disinfected with: benzalkonium chloride 1% (m/m), octyl-phenoxy-polyethoxy-ethanol $0.5 \pm 0.01\%$ (m/m), EDTA $0.5 \pm 0.01\%$ (m/m).

This test report contains results that refer only to the analysed sample and can only reproduced in full, without any change.

The analyst
(Dr.ssa Roberta Galli)

Scientific Referent

(Prof.ssa Giorgia Spigno)