

**Evaluation of the suitability of Product produced by the company Nav Durga Chromatics Pvt. Ltd., according to the DM 06/04/04 n.174.
To comply with the requirement of water supply regulations.**

On 22/07/2016, for assignment of the company Nav Durga Chromatics Pvt. Ltd. Jivan Niwas, 30A New Alipore, Block - 'R', Flat - A-5, 2nd Floor Kolkata - West Bengal, India, Comie has analyzed samples of Chromapoxy HBFN Paint to verify compliance with the limits of the DM 06/04/2004 n. 174 "Regulation of materials and objects that can be used in fixed plant uptake, supply and distribution of water intended for human consumption".

The client has required the determination of the parameters described in the following methods:

Methods.

The conditions used for the execution of the migration tests has been :

1. Simulants solvents to be used for the migration test: distilled water.
2. Test conditions: static contact for 24 hours at 40 ° C.
3. sample: are performed on the new objects after having been subjected to washing in running water for 30 minutes and subsequent rinsing with distilled water.
4. Surface / volume ratio: between 0,5 and 2.

Determination of global migration.

The determination is carried out on a new product.

The liquid from the migration test, is evaporated up to a very small volume, then decanted into graduated capsule. The last traces of water are eliminated in the oven at 10 5 ° C to constant weight, a blank test with an equal volume of water is performed in parallel.

Expression of results.

The global migration is calculated taking into account the actual surface / volume ratio used with the formula:

$$M = \frac{m}{a_1} \times \frac{a_2}{q} \times 1000$$

where
M = result in mg / kg;
m = mass in mg of substance released from the sample as determined by the migration test;
a1 = the surface area in dm² of the sample in contact during the migration test;
a2 = the surface area in dm² of the material or under actual operating conditions;
q = quantity in grams of water in contact with the material or with the object in the actual conditions of use

Annex shows the Test Report n ° 16LA22966



Test Report n. 16LA22966 dtd 03/08/2016

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The results contained in this report refer only to the test samples. This test report can not be reproduced in part or reproduced in advertising or promotional purposes without the authorization of the Laboratory COMIE s.r.l.

Customer : **Nav Durga Chromatics Pvt. Ltd.**
 Jivan Niwas, 30A New Alipore, Block - 'R' , Flat - A-5, 2nd Floor
 700053 - Kolkata - West Bengal, India

Description : **Chromapoxy HBFN Paint**

Law : Decreto Ministeriale n° 174 del 06/04/2004 and DLgs n° 31 02/02/2001

Sample identification : slab paint

Collected by : Customer

Arrive date: 22/07/2016

Sampling plan by : Plan by customer

Test start date: 22/07/2016

Test description	U.M.	Result	Limits		Test end date
			Min	Max	
Color APAT CNR IRSA 2020A Man 29 2003	-	Absent		Absent	29/07/2016
(*) Smell APAT CNR IRSA 2050 Man 29 2003	-	Absent		Absent	29/07/2016
(*) Taste APAT CNR IRSA 2080 Man 29 2003	-	Absent		Absent	29/07/2016
(*) Color released DM 21/03/1973 All IV Sez 7 SO GU n°104 20/04/1973	T%	99.7	95		29/07/2016
Global migration DM n° 174 06/04/2004 GU n° 166 17/07/2004	mg/kg	< 25		50 for rubber	60 for plastic 03/08/2016

The result, when preceded by the symbol "<" indicates the lower limit of quantification (LOQ).

The parameters marked with (*) are performed by tests not covered in the accreditation ACCREDIA of this laboratory.

The analysis are performed on a sample as received.

The conditions used for the execution of the migration tests has been :

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2. Test conditions: static contact for 24 ore at 40°C.
3. sample: are performed on the new objects after having been subjected to washing in running water for 30 minutes and subsequent rinsing with distilled water.
4. Surface / volume ratio: between 0,5 and 2.

Conclusion :

The value of global migration of the samples tested are within the limits set in Annex IIIa and IIIb of DM n 174 dtd 06/04/2004.

The value of Color released of the samples tested are within the limits set in Annex IV of DM 21/03/1973.

The value of Color, Smell and Taste of the samples tested are within the limits set in DLgs n° 31 02/02/2001 .

Head of Laboratory

