

LABORATORY REPORT

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Project:

Evaluation of Static coefficient of friction of Flash Dispersion Plus and Flash Dispersion Office from Dolphin according to ASTM D2047-044.

Comments:

We received floor polishes Flash Dispersion Plus and Flash Dispersion Office from Dolphin for the evaluation of slip resistance, which was measured with the INTERPOLYMER James Machine.

Slip resistance was reported as the static coefficient of friction, a number between 0.00 and 1.00. This number is the average of 4 runs for each formulation.(see test method page 2)

Flash Dispersion Plus was compared to our formulation F-13-061-01 based on SYNTRAN 1671 at 20% solids content and Flash Dispersion Office was compared to our formulation F-33-008-04 based on SYNTRAN A-170 at 20% solids content.

We applied 3 layers of each formulation on white Forbo Coloviny tile, we let it dry during 3days.

Formulation based on SYNTRAN 1671 and SYNTRAN A-170 show higher slip resistance in comparison to Flash Dispersion Plus and Flash Dispersion Office.

	F-13-061-01 SYNTRAN 1671 @ 20%	Flash Dispersion Plus	F-33-008-04 SYNTRAN A- 170 @ 20%	Flash Dispersion Office
pH	8.3	8.5	8.4	8.5
Solids (%)	20.0	20.1	19.8	19.9
James Machine : Static coefficient of friction	0.75	0.70	0.46	0.44

Temperature: 22.1°C
Relative Humidity: 36%

Conclusion:

Our James Machine can give a realistic idea of static coefficient of friction of floor polishes Flash Dispersion Plus and Flash Dispersion Office from Dolphin.

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Measurement of the slip resistance with James Machine

METHOD:

- ❑ The tile is divided into two equal parts
- ❑ In one area, a floor polish is applied according the IP instruction, in the other area, on the same tile, a reference with a known slip resistance.
- ❑ The solids of the polish to be tested and of the reference should be the same to make sure that the layer thickness is corresponding.
- ❑ For formulations with 14 % to 25 % solids, 3 coats of 2 ml each are applied.
- ❑ The floor polishes are allowed to dry for at least 16 hours at room temperature.
- ❑ The tile should be climatized in the test room for at least 16 hours before testing.
- ❑ The slip resistance is measured by using the James Machine, and the results are written on the official test chart.
- ❑ Very important is the Relative Humidity and the temperature of the room, the conditioning of the test tiles and the condition of the James Machine.



Slip resistance is reported as the static coefficient of friction, a number between 0.00 and 1.00. This number is the average of 4 runs for each formulation.

Floor finishes having a static coefficient of friction of not less than 0.5, as measured by ASTM D2047-04 traditionally have been recognized as providing non-hazardous walkway surfaces.