

## Flocculant - Floor adhesion test report

### Objectives:

- Evaluate the performance of the versatile absorbent Polycaptor® and a mineral absorbent like sepiolite on an accidental flocculant spill.
- Measure floor adhesion of the area after cleaning by an approved independent company

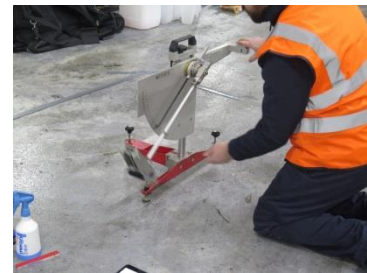
Floor adhesion is measured by a Skid Resistance Tester (SRT) according to European standards. The tests are carried out on a potential spill site in the factory.



Spill area



Flocculant before spill on the floor



Skid resistance tester

### MINERAL ABSORBENT




### POLYCAPTOR®



Absorption and cleaning of the floor

**Test results:**




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Diphex Limited (Kemira)  
Unit 5  
Roebuck Business Park  
Harrietsham  
Kent  
ME17 1AB

**Specific Test Location:** Line four wet area test 6  
**Temperature:** 16.5 °C (To 1 decimal place)  
**Description of floor material:** Painted concrete  
**Sloping/Level:** LEVEL  
**Direction A:** Length of warehouse  
**Direction B:** 90 Degrees  
**Direction C:** 45 Degrees  
**Latitude/Longitude:** 53.781814575195334/-1.7433929443359546

**Date of Test:** 25-JAN-16  
**Operator:** Kevin Furey  
**Pendulum:** SK1428  
**Slider:** Slider 96  
**Surtronic Duo:** G14-001155B



**Slip Test Results**

DIR' N	CONT' N				1	2	3	4	5	MEAN	PREV	RISK
A	DRY	69	60	60	70	70	70	70	70	70		Low
A	WET	54	55	56	56	56	56	56	56	56		Low
B	DRY	68	69	70	70	70	70	70	70	70		Low
B	WET	54	55	56	56	56	56	56	56	56		Low
C	DRY	68	69	70	70	70	70	70	70	70		Low
C	WET	54	55	56	56	56	56	56	56	56		Low

**R. Surface roughness of the test area (random direction)**

1	2	3	4	5	6	7	8	9	10	MEAN	PREV
23	23.5	26	24.8	24	24.7	21.9	25.9	29	24	24.7	

**Existing Controls and Recommendations**

Existing Controls in place to mitigate water ingress/contamination  
- No controls

Factors Affecting effectiveness of controls  
- Surface at risk of water spillage  
- Water tracked straight in from outside  
- Water could be tracked in from car park deck during times of inclement weather  
- Risk of contamination, workshop area  
- Area kept clean and monitored on a regular basis

Recommendations that may individually or collectively increase the PTV (Pendulum Test Values) in wet conditions or mitigate down the risk of the floor surface becoming wet.  
- Monitor for accidents and treat if accident related to slip

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<b>Mineral absorbent</b>	<b>-32% of adhesion</b> compared to the original floor
<b>Polycaptor® absorbent</b>	<b>+19% of adhesion</b> compared to the original floor

## Conclusion

The **flocculant spill** causes a **30% loss of floor adhesion**.

The **mineral absorbent** absorbs the flocculant but **does not permit to restore floor adhesion**. A residual layer of flocculant remains: -32% of adhesion compared to the original floor.

**Polycaptor® absorbent permits to absorb and dry the flocculant**. Floor adhesion is recovered and is even better to that of the original floor: +19% of adhesion. (Comprehensive absorption of previous spills).

**The risk of slipping after using Polycaptor® is considered to be low.**