

## TECHNICAL REPORT

### Assessment of coated tennis court sand

Report Number **LSUK.11-0375**

Client  
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Date(s) **29/09/2011**

This report contains 5 pages

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## SUMMARY

Coated tennis court sand was tested for particle grading, particle shape, water permeability and resistance to friability.

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## INTRODUCTION

Coated tennis court sand was tested for particle grading, particle shape, water permeability and resistance to friability. The above tests are being proposed to the Lawn Tennis Association (LTA) for their consideration of the assessment of coated and coloured sand for use in tennis court surfaces.

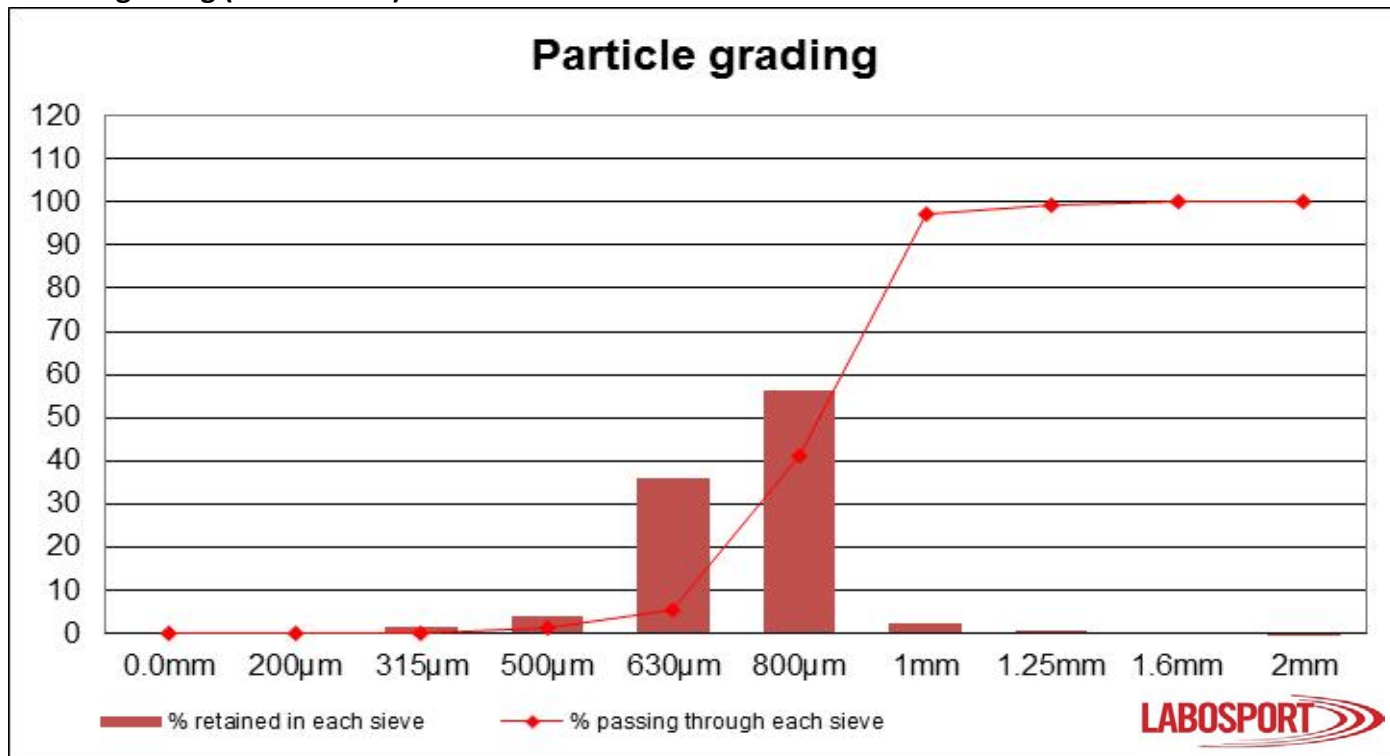
## TEST PROGRAMME

The coated sand supplier by SIDEC was tested to the following standards:

Particle grading	BS EN 933-1
Particle shape	BS EN 14955
Water permeability	BS EN 12616
Resistance to friability	NF-P 18-576

## RESULTS

### Particle grading (BS EN 933-1)



Sieve	0.0mm	200µm	315µm	500µm	630µm	800µm	1mm	1.25mm	1.6mm	2mm
% passing	0	0	0	1	5	41	97	99	100	100
% retained	0	0	1	4	36	56	2	1	0	0

The bulk density is 1.53 kg/m<sup>3</sup>

**Particle shape (BS EN 14955)**



The particle shape is predominantly **C3** which is round, low sphericity.

**Water permeability (BS EN 12616)**

The sand was found to have a water permeability rate of 4,324 mm/h when tested in accordance with BS EN 12616.

**Resistance to friability (NF-P 18-576)**

The coated sand was found to have a friability value of 11.4 which is within the range ( $\leq 30$ ) considered by French standard NF P90-112 to be acceptable. A similar requirement is being proposed to the LTA .

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## CONCLUSIONS

The coated sand supplied by SIDEC conforms with criteria that are in the process of being proposed to the LTA for the suitability of coated sands.

The Court Pace Rating (CPR) of a tennis surface is provided by the properties of the synthetic turf carpet and sand infill. This aspect of performance needs to be assessed by testing the complete playing surface and is normally commissioned by the surface manufacturer.

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