HDG Building Materials
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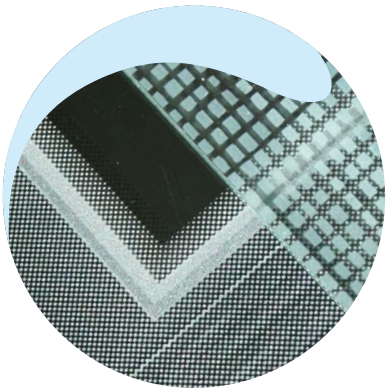
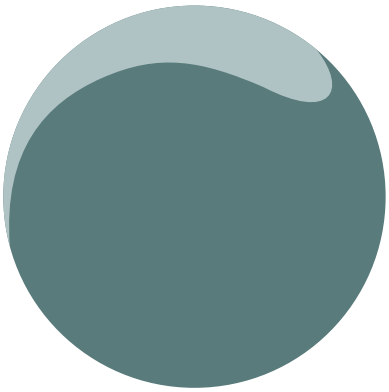
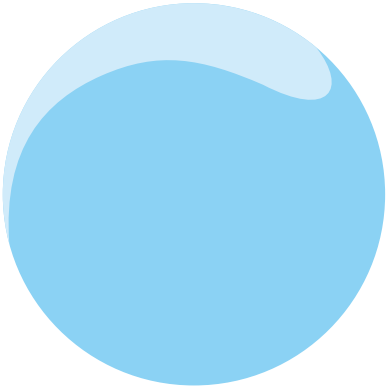
Flat Glass

Slip Resistance in Glass Coatings







JM
Johnson Matthey
Colour Technologies

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Products

Heavy metal and lithium-free glass enamels;

AF2000 Series

AF3000 Series

Screen-printing medium	Diluent
63/485	**230915**
654/63	**RM.454**
Recommended Mesh Size	**32T**

Surface roughness

Slip potential classification (from UKSRG,2011) based on water wet surface roughness values Rz.

Slip potential	Rz value
High	Below 10µm
Moderate	10 - 20µm
Low	20+µm

Pendulum Test Values

Slip potential classification (from UKSRG,2011) based on pendulum test values, water wet.

Slip potential	PTV
High	0 - 24
Moderate	25 - 35
Low	36+

Technical data

Johnson Matthey glass enamels are used in a wide variety of glass application technologies.

Decorative glass is used in ever challenging environments where the coating plays an important part in achieving the high standards expected from it.

Surfaces targeted at mitigating pedestrian slippage is one example where textured surface coatings supplied by Johnson Matthey can make a difference.

Textured coatings supplied by Johnson Matthey can be custom tinted to provide a variety of fired shades and are supplied in a ready-pasted form.

Surface roughness

The textured coatings provided by Johnson Matthey are designed to provide an increase in fired surface roughness compared to conventional enamel coatings.

Research has shown the roughness parameter Rz (measured in µm) of a surface can give a good indication of the potential 'slipperiness'.

Independent testing of a typical Johnson Matthey textured coating gives an indication of the improved slip potential achievable under water wet conditions.

Test	1	2	3	4	5	6
Rz value	12.1	11.1	19.0	21.0	18.0	13.8

Test	7	8	9	10	Avg
Rz value	25.7	21.4	15.4	17.8	17.5

Testing according to BS7976-2:2002

Pendulum test results

Independent testing of a typical Johnson Matthey textured coating gives an indication of slip resistance achievable under dry and wet conditions

	Mean PTV	
	Dry	Wet
Test 1	73	69
Test 2	74	70
Test 3	75	71
Test 4	75	72
Test 5	75	71

Testing according to BS7976-2:2002

Further information

The screen-printed deposit weight, screen pattern design, direction of print and firing parameters can all affect the resulting surface texture and can directly impact on the level of slip resistance achieved.

Independent testing should always be carried out by an accredited authority to ensure the glass decoration process and firing meets the necessary requirements for slip resistance.

ISO9001: FM 23657
ISO14001: EMS 507805