

# **Application datasheet**

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## **Description**

A single pack, ultra-black coating that can be applied by conventional spray. The resulting film absorbs approximately 99% of visible light to produce an infinite depth effect.

Vantablack VBX can be used to manage stray light in optical instruments, to improve contrast on large scale LED screens or in many architectural situations where an ultra-black, infinite depth effect is required.

## **Practical information**

Colour	Vantablack
Typical Dry Film Thickness	250μ*
Coverage	1.0 - 1.2 lt/m <sup>2</sup>
Touch Dry	15 mins

<sup>\*</sup> The dry film is a honeycomb structure, not a standard dry paint film

## Regulatory information

Flash Point	-20 °C
Weight/lt	0.928 kg/lt
VOC	700 g/lt

## Surface preparation advice

While Vantablack VBX can be applied to most substrates such as primed steel, concrete, plastics and most ceiling tiles specific advice should be taken from Surrey NanoSystems technical department prior to application. In some cases a tie coat or sealer coat may be recommended.

As with all standard coating applications, surfaces should be clean, dry, free from loosely adhering materials and grease.

## **Application**

Mixing	The product will have a gel appearance in the can. This will require 20 minute mixing using a mechanical stirrer before application begins (60 mins for a 180lt unit)
Air Spray (Gravity fed)	Gun-Devilbiss GTI Pro Lite Air Capacity TE10 Tip Size/Nozzle -1.2mm
Thinner	Not required
Equipment cleaner	VBX Equipment Cleaner No.1

## **Safety Precautions**

The dry film is non-hazardous and relatively inert. The wet paint contains a highly volatile solvent and the spray fan will contain fine particles that require the use of the appropriate PPE by the application team. The surrounding areas should be suitably masked to prevent contamination by overspray.

Given the volatility of the solvent content, it is important to use suitable ventilation and ATEX equipment, in the spray zone.

## Pack size and storage

The material is supplied as 20lt in a lined 25lt pail for ease of manual handling and mixing. Larger 180lt units, in lined 205lt containers, are available on request. As the product is mildly acidic, it should not be stored in unlined metal containers.

The material should be stored between 10 and 25°C and has a 6 month shelf life under these conditions.