Ultra low reflection paint (Super Black Paint)

Super Black Paint is now available in Super Black series.

In VIS range, this paint can have low reflectance of 0.7% which is even lower than Super Black IR.

features

○ The blackness one of being one of a kind as a water-based paint.
○ The reflectance in VIS range is 0.6%. (airbrush)
○ Regardless of industry, there is a great need for an ultra-low light reflection treatment that can be applied onto 3D shapes
○ Even if painted with a brush, this paint maintains the world's highest class low reflectance rate of 1.2%.

Application

○ This paint is mainly used for stray light prevention in cameras.
・Head Mount Display (HMD)
・Head Up Display (HUD)
・On-Viehicle Display
・ToF Camera
・LiDAR
・On-Mobile phone Camera
・Spectrometer
・Prevents reflection and light scattering of optical systems, optical measuring instruments, cameras

Specifications

○ Reflectance(VIS)：0.6%(airbrush)・1.0%(brush painting)
○ Capacity：100 ml
○ Ingredients：synthetic resin（acrylic）、pigment、antifungal agent、water
○ Application area：1㎡/1 time ※ For brush application

Precautions for use

○ Due to the powdery light absorption layer, the strength of the coating is very low, so glossing and peeling of the coating will occur even with light contact. The painted object may shrink and crack.
○ Powder dust will be generated during painting, so wear protective equipment such as goggles and a mask before using.
○ This paint has no near-infrared reflection suppressing effect.

Super Black IR Sheet

Painted aluminum plate with Super Black Paint

Painted the inner right half with Super Black Paint

Total Hemispherical Reflectance (AOI 8°)

Reflectance (%)

— Anti reflective Black coating
— flock sheet
— Super Black IR
— Super Black IR Plus
— Super Black Paint (airbrush)
-- Super Black Paint (brush painting)

Wavelength (nm)

*Specification is subject to change without notice   20201117