

47120 Nano F - Black

Our Nano F-Black can be applied matt or glossy according to the choice of binder. We recommend applying multiple thin layers in succession in order to achieve a deeper shade of black. A special feature is that the pigment shows different shades of black depending on the viewing angle.

Nano F-Black consists of small, hollow, slightly curved carbon tubes, so-called fullerenes, which are the ultimate light traps. Every last bit of light is trapped in the narrow carbon tubes, there is minimal reflection. It is easy to imagine that the light disappears in the tubes, which are very long in relation to their diameter, like in a black-painted curved tunnel. These tubes have been known in science for a long time, but only now has it become possible to produce these nanotubes in large quantities and utilise them for painting. Our high-tech preparation has made it possible for the first time to use these extremely sensitive nanoparticles for the production of paint. Kremer Pigmente is proud to make this Nano F-Black available for the first time for artistic use. The lightfastness is comparable to flame soot. The very small particles have almost no opacity. If possible, a black background is required. Repeated application leads to deeper and deeper black.

The preparation of Nano F-Black has so far only been successful for aqueous binders. In linseed oil, our Spinel Black (47400) is still the blackest of all blacks. As a natural black, we offer our Bone Black, exclusive (47110). The Bone Black is made from calcination of bones, which have light-trapping nano-pores. Furthermore, the pigment particles are larger than the Nano F-Black particles, therefore Bone Black has great hiding power. The aqueous suspension of Nano F-Black binds the paint firmly on paper. The binding power can be increased with our Gum Arabic, watercolor binder, (79260). Apply with a fine hair brush 3 - 6 times. The dispersion covers poorly, multiple applications are required to achieve opaque black layers.

Product Properties

Properties	Value
Solid content	1 or 2 %
Color	black
Density	1.01 g/cm ³
pH Value	4.32
Wetting agent ionogenicity	non ionic
Electrical Resistance	161 kOhm (in the dispersion)

General Information on Processing

Nano F-Black is suitable as an intermediate for further processing in aqueous and water-soluble mixtures, lacquers and other precursors.

Stir or shake the dispersion before use or prolonged storage.

Storage Stability

Product is stable for > 180 days.

Safety Measures

Do not eat or smoke during use. Avoid inhalation of vapors and contact of the product with the skin. Wear suitable protective gloves and safety goggles.