

Magnetic Paint

Smart and secure



The invisible attraction.
Magnetic Iron Oxides from COLORANA®
make it possible.

COLORANA®



RG Mineral AS
Rana Gruber Group



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Magnetic Iron Oxides from **COLORANA®** are based on dense, natural magnetite specially selected and upgraded to almost pure magnetite by innovative dressing technologies.

Magnetite content is minimum 97%.

Available products:

Type	Grain Size (microns = μm)			Magnetic Property
	SEM Median	Top-size $D_{99,99}$	Median D_{50}	
COLORANA® Mag.				
M-150T		450	60	90
M-20T		60	4 – 9	90
M-10T		36	2 – 3	89
CM-1C	0.6	8	1.0 – 1.5	86

The products have magnetic properties which allow permanent magnets to stick themselves to the magnetite particles. Any magnet can be used, however, depending on the intention of use and the character of the magnetic paint, magnets with high magnetic forces are preferred.

It is always recommended that several layers of magnetic paint are applied (optimum three layers) in order to increase the magnetic effect (attraction) of the paint.

COLORANA® magnetic iron oxides for magnetic paints do not give any bleeding and no miss-colouring due to a reaction with water as the magnetite is inert and will not form rust unlike iron metal powders. **COLORANA®** magnetic iron oxides are thus suitable for any binder system available to the producer, including water based applications.

Magnetic iron oxides have a black colour. We recommend changing the black colour of a magnetic paint by the addition of other pigments to make it easier to cover.

Magnetic paints create magnetic surfaces which can be applied nearly everywhere, but mainly they have been developed for interior use in private households or in public buildings. They are the best solution for offices, conference rooms, studios and hospitals to spread and organize information. They are especially recommended for Kindergartens and schools as a smart and secure alternative to needles and nails.

The Magnetic Paint itself is not a magnet. It does not create a magnetic field and will therefore not affect any magnet-sensitive equipment including pace-makers, mobile phones, computers and TV.

Guide formulation for a water-based magnetic paint:

Jotaplast C-Base (Latex binder)	Grey 30% (w/w)	Black 30% (w/w)
Magnetic Iron Oxide COLORANA M-150T	60% (w/w)	70% (w/w)
White pigment TIOXIDE TR81	10% (w/w)	
Weight solids	85,0 %	85,0 %
Volume solids	69 %	68 %
PVC	53%	52%

Magnetic Iron Oxides from **COLORANA®** are delivered in powder form packed in 1000kg Big Bags or in 25kg paper bags.

Further information about Magnetic Iron Oxides for Magnetic Paints is available from our marketing department.



RG Mineral AS

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