H.C. CARBON GmbH

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PRODUCT-INFORMATION

1. Product Name

MECHANO-COND® 1D5

2. Product description

MECHANO-COND® 1D5 is a carbon dispersion for aqueous paint and coating systems to achieve electrical conductivity. The dispersion is manufactured according to the FLG*-technology and achieves the highest electrical conductivity. Due to its composition, MECHANO-COND® 1D5 can be incorporated directly into any aqueous formulations and is well tolerated with them. MECHANO-COND® 1D5 contains no binders but only dispersing additives in low concentration and can therefore be used in a wide range of applications. The carbon pigments contained allow - depending on the concentration of use - the setting of different resistance values. Even after a longer service life, the dispersion can easily be stirred up again.

3. Applications

- Production of electrically conductive or antistatic coating systems, adhesives or coatings.
- Heating coatings
- Shielding colours
- Electrically conductive concrete

4. Properties

- Excellent compatibility with aqueous binder systems (acrylates, polyurethanes, polyvinyl acetates, etc.
- Easy incorporation by dissolver
- VOC and APEO free
- No sewage problems (biologically eliminable)
- Nonflammable
- Not corrosive
- Odorless

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5. Technical data

Property	Specification	Unit
Solid content	47 ± 1	Wt. %
Carrier	water	
Diluent	water	
Ionogenity	anionic	
Density	1,15	g/ml
pH	7-8	
Resistance[1]	7,0 ± 1	Ω

6. Service

It is our commitment to provide the best service. Our technical staff will be happy to serve you.

* FLG technology = Few Layer Graphene

1 self-measurement