

parmetol® DF19 forte

Reliable and cost efficient protection against fungi and algae

- Wet-ground dispersion of fungicidal and algaecidal actives
- Protection for various kinds of coatings used for outdoor application
- Broad spectrum of efficacy
- Free of VOC and organic solvents

Active substance		
EINECS-Name:	CAS-No.:	EC-No.:
Carbendazim	10605-21-7	234-232-0
Diuron	330-54-1	206-354-4

Physico-chemical properties	
Colour	off white - light beige
Form	dispersion
Odour	odourless
Density (20 °C)	1.090 - 1.120 g/ml
Initial boiling point	ca. 100 °C
Flash point (ISO 2719)	> 100 °C
Viscosity (DIN 53224 - 20 °C)	250 - 1,000 mPa*s
Water solubility (20 °C)	< 0.01 g/l
VOC-Content to Directive 2004/42/EC	none

Fields of application		
The recommended use levels relate to the total formulation in each case. The values given are recommended guidelines. Limits for labelling can be seen from the separate Schülke labelling sheet.		
Use biocides safely. Always read the label and product information before use.		
	Recommended dosage	
Dispersion paints	5 - 20 g/kg	(0.5 - 2.0 %)
Textured coatings/ plasters	2 - 20 g/kg	(0.2 - 2.0 %)
Glues, adhesives	3 - 20 g/kg	(0.3 - 2.0 %)
Sealants	3 - 20 g/kg	(0.3 - 2.0 %)
Plastics	5 - 20 g/kg	(0.5 - 2.0 %)

Indications for use	
Recommended use pH range	3 - 12
Maximum use temperature	> 100 °C (short periods during drying process)
Additional advice	The product should not be added to the aqueous phase. Product should be homogenised before use. Cleaning of equipment is possible by rinsing with water.

Microbiological efficacy	
<p>Parmetol® DF 19 forte is especially suitable for the protection against algal and fungal attack for surface and facade coatings as well as for other building chemical products. The efficacy of Parmetol® DF 19 forte was proven through extensive lab testings with common facade and plaster coatings on the market according to the methods SM 022/023 (analogous VdL RL 06/07) against the following germs: <i>Aspergillus niger</i>, <i>Penicillium funiculosum</i>, <i>Scenedesmus vacuolatus</i>. Parmetol® DF 19 forte has algaecidal as well as herbicidal efficacy. The optimum use level for the required efficacy can only be evaluated by means of suitable test methods with the finished product (e.g. in co-operation with the Schülke Technical and Microbiological dept). Parmetol® DF 19 forte does not provide an in-can preservation. For this we recommend the use of a suitable in-can preservative such as Parmetol® A 26.</p>	

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Compatibility*

The product is compatible with almost all raw materials which would normally be used for production of water based systems. The materials used with Parmetol® DF 19 forte should be water resistant. Individual tests including our technical and microbiological support can be carried out at any time.

*Compatibility has to be proved in each case

Labelling

R-phrases(s)	R40, R46, R48/22, R50/53, R60, R61
S-phrases(s)	S35, S36/37, S45, S53, S60, S61
Labelling	T (Toxic), N (Dangerous for the environment)
	For further hazard instructions and safety advice please refer to the actual material safety data sheet.

Environmental information

Dilutions of Parmetol® DF 19 forte do not normally interfere with the operation of waste water treatment plants. The canisters and drums used by Schülke are made of polyethylene (HDPE) and are labelled accordingly. The containers are covered by a return scheme that ensures collection of the used containers free of charge and appropriate reuse all over Europe. The labels are made of PE. Schülke packaging materials contain no PVC and can be recycled. For further information please ask for our detailed environmental report.

Listings and approvals of active ingredients

EINECS / ELINCS (Europe)
TSCA (USA)
ECL (Korea)
DSL / NDSL (Canada)
ENCS (Japan)
PICCS (Philippines)
AICS (Australia)
IECSC (China)

Transport & Storage

Dangerous goods	Yes
UN-Number	3082
Packaging group	III
Package sizes	25 kg, 1000 kg
Shelf life	12 Months
Storage	Protect from frost, heat and direct sunlight. Store at room temperature in the original container.

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Our recommendations regarding our products are based on in-depth scientific testing in our Research Department; they are given in good faith, but no liability can be derived from them. It is the responsibility of the final product manufacturer to assure that claims made for the final product are in conformance with all applicable local laws. In other respect our Conditions of Sale and Supply apply.

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