



COLORS &
EFFECTS

BASF
We create chemistry

Microlith® WA

Stir-in pigment preparations for water-based coatings with high transparency

Key features

- Organic and inorganic pigments pre-dispersed in an **acrylic resin**
- Excellent color strength, gloss, light fastness, and transparency, as well as outstanding dispersion

Bonus features

- Dry powder, low dust processing
- Small particle size and extremely narrow particle size distribution
- Combination with effect pigments offers endless styling opportunities

Wood coating with Microlith® WA

- Easily incorporated into an alkaline water / alcohol mixture with solvents or high-shear mixers without preliminary milling
- Suitable for wood stains, glazes, and lacquers

Microlith® WA

Ideal for water-based coating systems

Product name	Color Index	Chemistry	Pigment content [%]	Fastness to light			Resistance to overlacquer					
				Oak with NC [3%]*	Oak without NC [3%]*	Pastel shade	Polyurethane	Acid curing	Polyester	Nitro-cellulose	UV-curing	
Microlith® White 0022 WA	P.W.6	Titanium dioxide	80	7	7	7	5	5	5	5	5	5
Microlith® Black 0066 WA	P.Bk.7	Carbon black	54	7	7	7	5	5	5	5	5	5
Microlith® Yellow 1040 WA	P.Y.93	Azo condensation	50	7	7	7	5	5	5	5	5	5
Microlith® Yellow 1550 WA	P.Y.83	Diarylide demethoxy chloranilide	57	5-6	6	6-7	5	5	5	5	5	5
Microlith® Yellow 2040 WA	P.Y.110	Isindolinone	58	7	7	7	5	5	5	5	5	5
Microlith® Brown 3001 WA	P.BR.23	Azo condensation	60	7	7	7	5	5	5	5	5	5
Microlith® Scarlet 3430 WA	P.R.166	Azo condensation	60	7	7	7	5	5	5	5	5	5
Microlith® Red 3630 WA	P.R.254	Diketo-pyrrolo-pyrrole	50	-	-	-	5	5	5	5	5	5
Microlith® Red 4035 WA	P.R.221	Azo condensation	58	6-7	6-7	6	5	5	5	5	5	5
Microlith® Blue 7080 WA	P.B.15:3	Cu-phthalocyanine (β)	59	7	7	7	5	5	5	5	5	5

* Concentration of the pigment preparation in the applied stain

Compatibility with binders

Microlith® WA dispersions have a very broad compatibility with alkaline and neutral binder systems in aqueous solution or dispersion form, such as: acrylates, polyurethanes, PVC-latex, polyvinyl alcohols, polyvinyl acetates, maleinate resins, and others.

Formulation guidelines for the preparation of a wood stain

Incorporation: Prepare water / alcohol mixture and add Microlith® WA while stirring constantly. When thoroughly wetted, add DMEA and disperse for 30 minutes with the dissolver at a peripheral impeller speed of 9m/sec.

Important factors for an optimum pigment distribution and a good stability of the dispersion:

- type and concentration of the alcohol

Concentrate	Microlith® White	Microlith® colored	Reduction	Microlith® White	Microlith® colored
Microlith® White 0022 WA	45%	-	Concentrate (see left)	22%	40%
Microlith® colored	-	25%	Water	38%	59%
Water	33%	65%	Ethanol	38%	-
Ethanol	20%	-	Polyvinylalcohol**	2%	1%
Isobutanol	-	8%		100%	100%
DMEA	2%	2%			
	100%	100%			

** Polyvinylalcohol with a high degree of saponification (85-93%) and a medium viscosity, e.g. Mowiol®1 23-88

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