



Add it. Love it.

Chemical Solutions

LUCRAMUL® WT 100



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LEVACO
CHEMICALS

Profile

LUCRAMUL® WT 100

chemical description	alkyl polyethylene oxide and polypropylene oxide block copolymer
ionicity	non ionic
active content	100
	low-foaming
form supplied	liquid
density at 20°C [g/cm ³]	1.0 – 1.1
viscosity at 20°C [mPas]	108
pH value [1% solution in water]	5 – 7
miscibility in water	yes
miscibility in organic solvents	alcohols, ester, vegetable oils, aromatic and aliphatic solvents
HLB value	5.8
	solvent free, APEO-free

technical data of LUCRAMUL® WT 100

- alkyl polyethylene oxide polypropylene oxide block copolymer
- strong and fast impact on dynamic surface tension
- easily soluble in organic solvents, oils and water
- excellent emulsifying, dissolving properties
- reduce syamic and/or stativ surface tension
- enable a better dispersion, homogeneity, spread and firm formation of the system
- reduce dynamic and/or stativ surface tension
- excellent solubility and outstanding compatibility towards surfactants, polymers, resins, pigments and other substrates

Applications

- multifunctional wetting agent
- compatibilizer and color strength enhancer in nearly all kind of pigment preparations
- spontaneous emulsifier for organic solvents and oils in water
- penetration promoting agent in wood treatment and coatings
- emulsifier for stable silane and alkyd emulsions



Compatibilizer

- excellent compatibility towards other surfactants, polymers, pigments, additives and their formulations
- strongly improves the compatibility of pigment concentrates in water-based and solvent-based base coats
- recommended dosage for best results is between 0.5 – 3.0 % based on total formulation in the pigment concentrate to obtain the best results
- better homogeneity, reduction of flooding and floating (rub-out-effect) of the pigments
→ possibility to reduce the amount of pigment



Drawdowns of organic and inorganic pigment concentrates in white base coat with and without LUCRAMUL® WT 100.
top: without LUCRAMUL® WT 100, bottom: with 1% LUCRAMUL® WT 100 in the pigment concentrate

Color measurement data

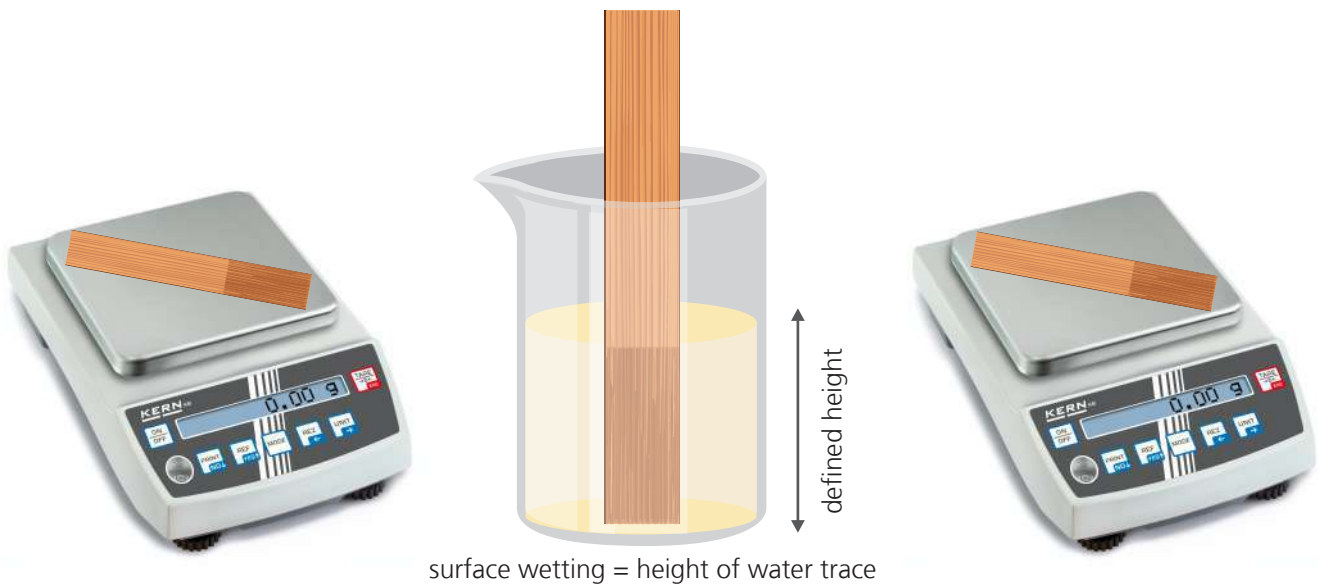
pigment type	color measurement data					
	L*	a*	b*	c*	h°	
P.R. 122 (without WT 100)	L*	a*	b*	c*	h°	
	67.41	35.17	-14.11	37.90	338.15	
P.R. 122 (+1% WT 100)	ΔL^*	Δa^*	Δb^*	Δc^*	ΔH^*	ΔE
	-1.40	2.26	-1.20	2.55	-0.26	1.27
P.Bk. 7 (without WT 100)	L*	a*	b*	c*	h°	
	54.85	-1.11	-4.94	5.06	257.01	
P.Bk. 7 (+1% WT 100)	ΔL^*	Δa^*	Δb^*	Δc^*	ΔH^*	ΔE
	-1.51	0.05	0.13	-0.13	0.02	0.68
P.V. 23 (without WT 100)	L*	a*	b*	c*	h°	
	49.63	11.26	-29.65	31.72	290.79	
P.V. 23 (+1% WT 100)	ΔL^*	Δa^*	Δb^*	Δc^*	ΔH^*	ΔE
	-1.65	0.70	-0.76	0.96	0.38	0.95

color measurement data of LUCRAMUL® WT 100



Wood treatment

- strong penetration promoter for coatings in the wood treatment process
- unique wetting and emulsifying properties enable a much higher uptake and deeper penetration of the applied coatings into the wood
- strong impact of the surface tension → concentrate spreads fast and efficient to obtain the best results
- the solvent character and emulsifying properties help to keep the coating mobile for a longer time
- wood color becomes more intense without losing natural texture and haptic of the wood





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