

XOANONS® Dispersing agent

Model number

XOANONS®WE-D2163R

Specification

Composition	Solutions of polymer block copolymers with pigment affinity groups.
Appearance	Yellow to reddish brown transparent liquid
Solvent	DPMA
Active substance	40%
Density	1.01-1.05g/ml(25 ± 1)°C
Viscosity	100-1000 mPa·s (Rotating viscometer)(25 ± 0.2)°C
Flash point	> 70°C

Note: This data sheet is intended to give typical results, not standard. Subject to COA.

Application system

Solvent-based system

Properties

- Dispersion of medium and high pigment carbon black and organic pigments has excellent dispersion efficiency and viscosity reduction ability.
- Excellent color spreading and tinting strength for medium and high pigment carbon black and organic pigments.
- Good anti-floating performance in compounding and color mixing.
- Excellent storage stability.

Incorporation

The dispersant should be added to the grinding material and stirred well, then add the color to grind and disperse.

Suggest addition

Inorganic pigments	1-10%
Organic pigments	15-40%
Carbon Black	25-100%

Storage stability

Keep in the original unopened package for 24 months. After the storage period is exceeded, the product can be used after passing the inspection. Before the container is completely empty, it must be tightly closed immediately after use.

Package

25KG / 180KG

Application performance of WE-D2163R in 2K PU system color paste.

High pigment carbon black FW-200 color paste / BGS Phthalocyanine blue paste


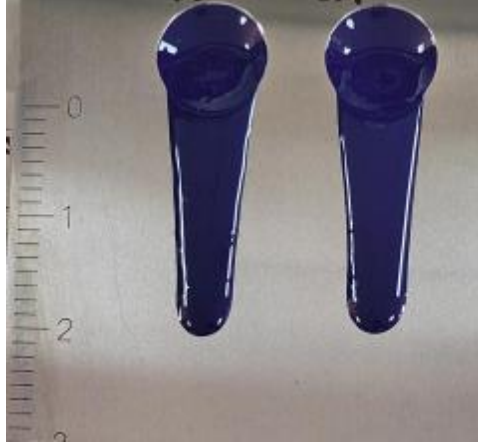

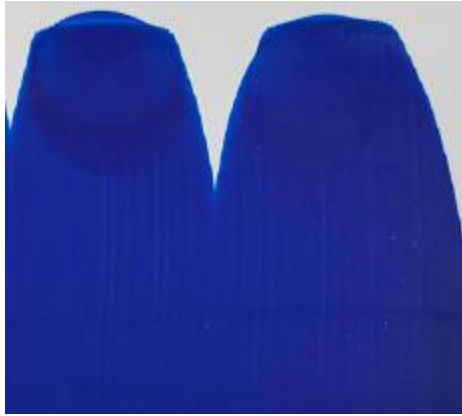
■ Ratio of color paste formula:



#Hydroxyacrylic resin: YP21-70.

#Carbon black concentration: 8%. Dispersant addition: 8% (supply state to carbon black 100%).

#Phthalocyanine blue concentration: 10%; Dispersant addition: 4% (supply state to phthalocyanine blue 40%).

■ Application properties

		Black pulp performance		Blue pulp performance	
		Similar 163	WE-D2163R	Similar 163	WE-D2163R
Fineness, μm		<10	<10	<10	<10
Flow plate viscosity					
color spreading	L	25.69	25.12	30.6	30.41
	a	-0.13	-0.11	-0.68	-0.37
	b	-0.89	-1.22	-21.69	-21.14
60° gloss		86.8	84.7	86.2	86.2
Scratch picture					
		white dilution performance		white dilution performance	
		Similar 163	WE-D2163R	Similar 163	WE-D2163R

tinting strength	L	49.43	47.36	66.46	65.91
	a	-1.01	-0.85	-20.55	-21.15
	b	-2.93	-2.26	-31.23	-31.89
60° gloss		87	87.4	88.5	89.1
finger grinding color difference	ΔL	1.64	0.13	0.47	0.08
	Δa	-0.11	0.01	1.82	1.13
	Δb	-0.43	0.02	1.36	-0.08
	ΔE	1.69	0.13	2.32	1.13
finger grinding picture					

■ Conclusion:

For high pigment carbon black, WE-D2163R showed better viscosity reduction, color spreading, tinting strength and finger grinding color difference of white dilution than the comparison product.

For phthalocyanine blue, WE-D2163R showed similar viscosity reduction, color spreading and tinting strength as the comparison product, and the finger grinding color difference of white dilution was smaller.