XOANONS® Anti-graffiti and easy-cleanability leveling agent

Used in UV bright varnish to provide stain resistance and improve hydrophobicity and oil repellency

Model number

XOANONS®WE-D7710

Specification

Composition	Reactive silicon containing acrylic functional groups
Appearance	Light to dark green clear liquid
Solvent	——
Density	1.03-1.07g/ml(25±1)℃
Viscosity	500-2500 mPa·s (Rotating viscometer)(25±0.2)℃
Active substance	100%
Flash point	＞100℃

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

Subject to COA.

Application system

UV Cure

Properties

- Radiation reactive silicon additive. Improve mechanical properties and reduce friction, excellent ability of defoaming.
- Improve mechanical resistance and reduce friction, with excellent wetting ability of the substrate.
- Good compatibility in varnish.
- The conventional dosage has no effect on the curing rate, while the effect at high dosage needs to be pre evaluated.

Incorporation

Easy to add with pre-diluted solvent the same as that in the coating system. Can be added as post-addition.

Suggest addition

Addition to total formulation 0.3-1.0%

Storage stability

Keep intact 24 months in original package.Products beyond the storage period may continue to be used after inspection. The container must be closed immediately after use.

Application recommendation

Transparency in varnish	5
Pollution resistance	4
Stick resistance	3
Hydrophobicity and oil repellency	3

0=unavailable 5=very effective

Package

25KG / 180KG

Attachment: Application performance testing

1. Compatibility and Oil Resistance of 0.5% WE-D7710 in Different UV Varnishes

Type of main resin	compatibility	Oil pen resistance
epoxy	5	5
2-functionality polyurethane	5	3
6-functionality polyurethane	5	4
10-functionality polyurethane	5	5

5=excellent

2. Slip (10-functionality polyurethane)

sample	Dynamic friction coefficient（μd）
Blank sample	0.551
WE-D7710(dosage 0.5%)	0.153
WE-D7710(dosage 1.0%)	0.150

3. Hydrophobicity (10-functionality polyurethane)

sample	Water contact angle（°）
Blank sample	≈70
WE-D7710(dosage 0.5%)	92.2
WE-D7710(dosage 1.0%)	94.5