

XOANONS® Polyether modified silicon leveling agent

Model number

XOANONS®WE-D5405BR

Specification

Composition	Polyether modified polydimethyl siloxane solvent
Appearance	slight yellowish clear liquid
Solvent	Di-basic ester
Density	1.06-1.10g/ml(25±1)°C
Viscosity	5-30s(Tu-4 viscometer)(25±0.2)°C
Active substance	13%
Flash point	> 100°C

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

Application system

Solvent-based

Properties

- Good varnish compatibility.
- Provide a strong reduction of the surface tension.
- Reduce the friction coefficient. Increase slip and improve scratch resistance.
- Good recoating and minimal influence on adhesion of coating films at suitable addition and baking temperature. Excellent anti-cratering ability, commonly used to replace oil-resistant agent, do not affect the environment and recoatability.

Incorporation

Added at any stage, including post-addition.

Suggest addition

Addition to total formulation 0.1-1.0%

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	4
Defoaming	1
Dynamic surface tension	5
Static surface tension	5
Slip	4
Prevent orange peel	1

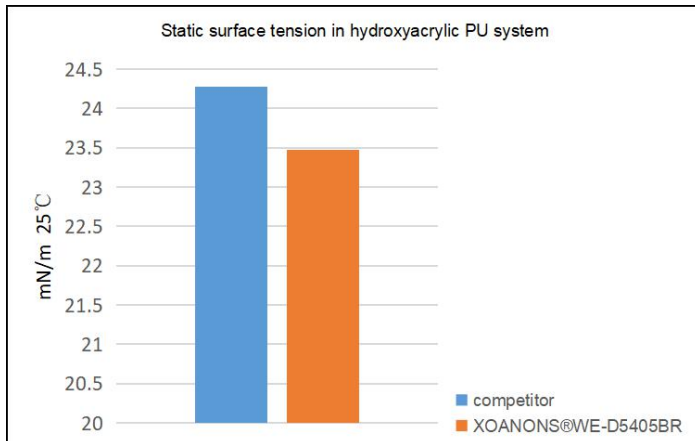
0=unavailable 5=very effective

package

25KG / 180KG

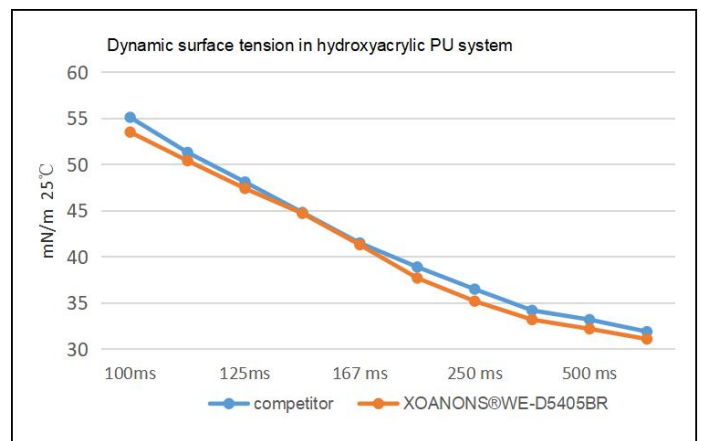
Attachment: application performance test data (addition amount 0.3%)

Static surface tension



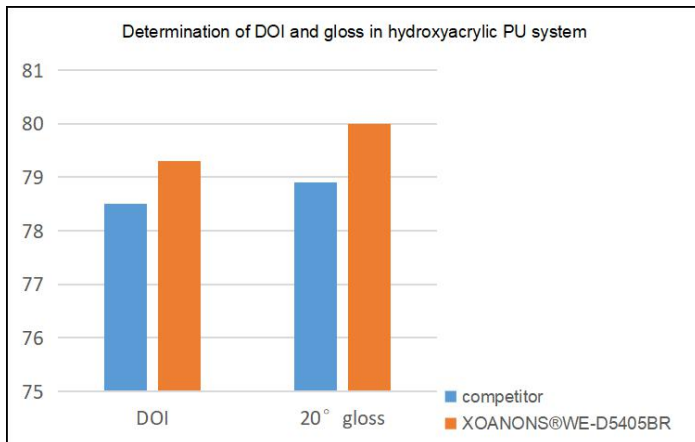
The static surface tension is measured by automatic surface tension meter. This parameter measures the ability of coating additives to wet and spread on solid surfaces under balanced surface tension. The smaller the static surface tension, the stronger the wetting and spreading ability.

Dynamic surface tension



Dynamic surface tension (DST) is measured by bubble tensiometer. This parameter is representative in coating application (such as spraying). It measures the surface activity of coating additives in the coating process, that is, the diffusion ability of coating additives from solution to interface. The smaller the dynamic surface tension, the faster the leveling speed of the coating under the same time conditions.

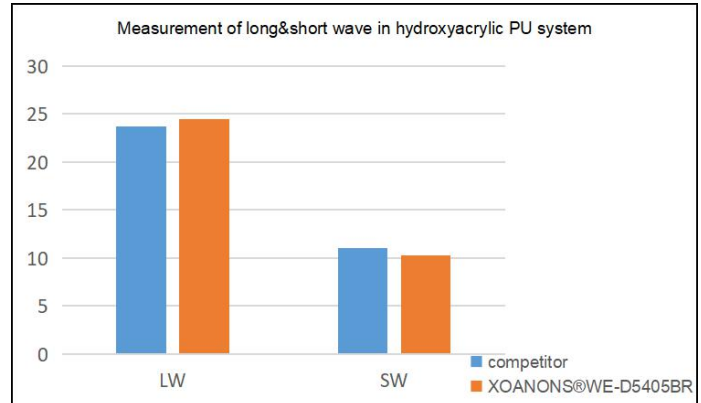
DOI and gloss



The freshness and gloss are measured by orange peel tester and triangle gloss tester respectively.

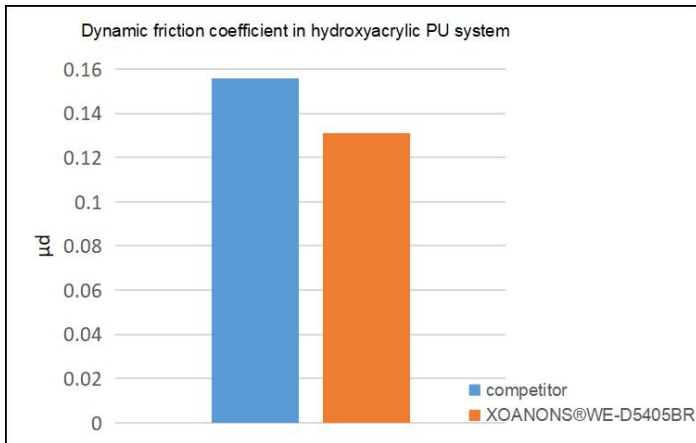
DOI, namely freshness, is an index reflecting the sharpness of the reflected image. The higher the value, the better the freshness; For high gloss products, the higher the gloss data, the better the visual feeling.

Data of long&short wave

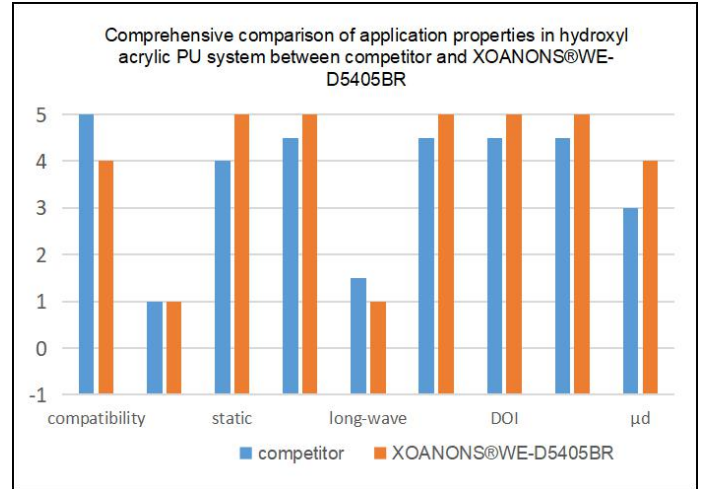


The long and short waves are measured by orange peel instrument. LW is long wave comprehensive data. The lower the value, the better the long wave level; SW is short wave comprehensive data. The lower the value, the better the short wave level.

Dynamic friction coefficient



Comprehensive conclusion of application experiment



Dynamic friction coefficient for slip (μd). The lower the value, the better the slip and feel. Excellent slip will bring good scratch resistance and improve anti adhesion. 5 = excellent 0 = poor