

General Description **UN-CGuard25** is a COLOUR GUARD additive for water based paints and coatings manufactured exclusively at United Nanotech Products Ltd.

Composition **UN-P102A** is described chemically as a combination of nano- and micron-size particles of silver, zinc oxide, and polyethylene-glycol-*tert*-octylphenyl ether, sodium chloride, polyethylene glycol. The above mentioned ingredients are well dispersed in water.

Typical Properties **UN-CGuard25** has the following typical properties:

Property	Analysis
Appearance	White paste
Odour	Nil
Solubility	Water
	Dispersible
Specific gravity	1.25 – 1.35
Viscosity (40% aq. solution) B4/30°C	12.7 – 13.0 s
Solid %	35 – 40
Retention in 500 mesh	Nil

UV-blocking Parameters **UN-CGuard25** has the following UV-blocking parameters

UV	Wave length (nm)	Blocking %	Test Method
UV-A	320-380	98.2	ASTM E424
UV-B	280-320	99.1	ASTM E424
UV-C	200-280	99.9	ASTM E424

Test Procedure Low porous glass material was used as slide, which passes 10% UV-light. Paint prepared using **UN-CGuard25** was coated on glass slide with a coating thickness of 0.5 micron. Sample slide and a blank slide were exposed simultaneously with the UV-light and percentage of passed light was measured.

Addition **UN-CGuard25** should be added under good stirring at the dispersion stage. Good homogeneous distribution must be observed.

Storage Conditions **UN-CGuard25** should be stored at temperatures within the range 5-55°C. Storage conditions should also be in conformance with applicable legal, fire and insurance regulations.

Shelf Life Under correct storage conditions the normal shelf life for this product is 12 months.

Safety Data Sheet MSDS is available upon request.