HENTZEN COATINGS, INC.

TECHNICAL BULLETIN

17101KWA/17102CMU
Two Component Water Reducible Aircraft Black Chemical Agent Resistant Coating
Fed. Std. 595 Color #37038 per MIL-DTL-64159, Type II

PRODUCT DESCRIPTION

AQUA URA-ZEN is the trade name for Hentzen's line of water-reducible polyurethane coatings. This is a two-component system designed to be applied over a suitable primer as MIL-P-53022B.

HANDLING & STORAGE

These coatings have a minimum shelf life of one year from date of manufacture if properly stored. We suggest that these materials be stored in a cool, dry area and never in direct sunlight. We further suggest that the ideal storage temperature is 65 - 80°F. The materials will remain stable below 55°F. Do not freeze.

PHYSICAL CHARACTERISTICS

17101KWA Aircraft Black - Component A:	
Weight per Gallon:	9.79 lbs. ± .2
Viscosity Stormer:	65 - 70 KU's
Weight Solids:	42.66% ± 2.0%
Volume Solids:	32.46% ± 1.0%
Lbs. VOC/Gallon Minus Water:	1.33 lbs.

17102CMU Catalyst - Component B:	
Weight per Gallon:	8.96 lbs. ± .2
Viscosity #3 Zahn:	27 - 33"
Weight Solids:	77.52% ± 1.0%
Volume Solids:	72.39% ± 1.0%
Lbs. VOC/Gallon Minus Water:	2.02 lbs. maximum

Admixed Characteristics:	
Catalyzation Ratio:	2:1 by volume
Thinner Further Required:	Deionized Water
Thinner Ratio:	.5 volume
Viscosity @ 2:1:1:	30 - 40" #3 Zahn
Weight per Gallon:	9.34 lbs. ± .2
Weight Solids:	46.78% ± 1.0%
Volume Solids:	39.23% ± 1.0%
Theoretical Coverage - sq. ft./gl. @ 1.0 mil dry film thickness:	629
Cure Schedule - Force Dry:	30 minutes @ 180°F

ENVIRONMENTAL REPORT

Volatile Content (Wt.%):	53.22
Organic Volatile Content (Wt.%):	9.33
Water Content (Wt.%):	43.89
Water Content (Vol.%):	49.22
VOC Minus Water:	1.80 maximum

DIRECTIONS FOR USE

Mix or agitate Component A thoroughly prior to use. Thoroughly mix 2 parts by volume of Component A with 1 part by Volume of Component B. Then slowly add, under good agitation, ½ part by volume of Deionized Water. Add additional water as needed. For best overall protection, a dry film thickness of 1.80 mils minimum is required. Apply this material with conventional air atomization spray equipment. Mix only what you will use in 4 hours. After that time, depending on temperature, the product will start to thicken and eventually gel.

PRECAUTIONS & SAFETY

- Do not apply at temperatures below 50°F.
- Read all container labels.
- Read all Material Safety Data Sheets.
- Do not store unused admixed material in sealed containers. Admixed material will generate CO_2 gas, which will produce hazardous pressure in sealed conditions.
- Admixture possesses hazards of all individual components. Observe all precautions.

CLEAN-UP

A water flush followed by a solvent chase is recommended to flush and clean equipment. The solvent flush is advised to remove any residue left after the water flush has been performed. MEK is suggested for the solvent chase.

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