



PRODUCT DESCRIPTION

AEGIS AECH is a versatile, high performance, two component epoxy ceramic hybrid liquid coating with the ability to perform at very low dry film thickness levels.

PRINCIPAL CHARATERISTICS

- Superior performance at dry film thickness as thin 0.5 mil
- High hardness and flexibility
- Excellent adhesion
- Manufactured with VOC exempt solvents
- Has shown excellent UV stability in preliminary QUV testing
- Good resistance to a wide variety of chemicals
- Improved coefficient of friction leading to reduced static & sliding friction.
- 1000 hr. Corrosion Resistance according to ASTM B117

PRODUCT DATA_

- Number of components 2
- Recommended mix ratio
 8:1 by volume
- Volume solids 30-40%
- Recommended dry film thickness mil 0.5 1.5
- Cure schedule 1 hour @ 175 F 300 F

Note: ambient flash time after application can alter gloss levels

Overcoating Interval After cure @ 175F for 20 minutes

After full cure unlimited

Shelf life AECH 12 months when stored cool and dry

Activator 12 months when stored cool and dry

Reducer Oxsol 100

Test	Method	Units	Value
Pencil Hardness	ASTM D3363		9Н
Impact Resistance (Direct/Reverse)	ASTM D2794	in-lbs.	160/160
MEK Resistance	ASTM D4752	Double rubs	>200
Pull-Off Adhesion	ASTM D3359		5A/5B
Conical Mandrel Bend	ASTM D522	in	<1/8

RECOMMENDED SUBSTRATE CONDITIONS & PREPERATIONS

Coating performance is proportional to the degree of surface preparation. Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt and other foreign material to ensure adequate adhesion.

- Grit blasting using 120 grit aluminum oxide or garnet **ONLY**. *Changes in media materials or sizes can have detrimental effects to the performance properties of AECH.*
- Pre-Treatment and blast recommendations:

Stainless Steel- Grit blast 50-60psi

Alloy Steel- Grit blast and phosphate or grit blast only

Aluminum- Anodize and grit blast at low pressure (10-20psi) to add surface texture but not remove anodizing or grit blast

Electroplated surfaces- Grit blast at low pressure (10-20psi) to add surface texture. Any peeling of plating will require the plating to be 100% removed

Plastics- Grit blast at low pressure (5-15psi) or manually scuff part with scotch-bite type of abrasion pad

Recommended substrate temperature: 50F minimum
 80F maximum

RECOMMENDED APPLICATION EQUIPMENT

Conventional air spray

- Walcom EGO Carbonio 190 HVLP
- Fluid Nozzle 0.8
- Cleaning Solvent Acetone

ADDITIONAL NOTES_

• Do not mix previously catalyzed material with new

HEALTH & SAFETY

- See Safety Data Sheet and product label for complete safety and precaution requirements
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist of vapor, as well as contact between the wet paint and exposed skin or eyes

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