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**Corrosion Test Data  
 COR72-AA, CA and DA Type Products  
 Flexural Strength and Modulus Retention Data**

**ASTM F1216 & D543 (CIPP)**

Flexural Strength Retention, %  
 Months

Immersion Media	Months			
	1	3	6	12
100% Tap Water (pH 7)	84	99	98	100
5% Nitric Acid (pH 0.2)	92	86	97	98
10% Phosphoric Acid (pH 0.9)	99	93	100	100
10% Sulfuric Acid (pH 0.01)	91	89	100	96
100% Fuel C	100	93	100	98
0.1% Detergent (pH 10)	96	92	90	89
0.1% Soap Solution (pH 7)	96	91	100	98
100% Vegetable Oil	100	94	100	100

Flexural Modulus Retention, %  
 Months

Months			
1	3	6	12
99	100	99	97
100	97	96	100
100	100	100	100
96	98	97	93
100	100	100	98
100	100	100	99
100	82	100	100
100	100	100	100

**ASTM D5813, F1743 & D543 (CIPP)**

1% Nitric Acid (pH 0.9)	100	95	88	100
5% Sulfuric Acid (pH 0.3)	100	82	83	93
100% Fuel C	100	93	100	100
0.1% Detergent (pH 10)	96	92	90	89
0.1% Soap Solution (pH 7)	96	91	100	98
100% Vegetable Oil	100	94	100	100

100	100	100	100
100	100	100	100
100	100	100	100
100	100	100	99
100	82	100	100
100	100	100	100

**ASTM C581 & D543 (GRP)**

100% Tap Water (pH 7)	84	99	100	98
1% Nitric Acid (pH 0.9)	93	99	93	85
5% Nitric Acid (pH 0.2)	82	83	87	89
10% Phosphoric Acid (pH 0.9)	100	99	96	100
5% Sulfuric Acid (pH 0.3)	99	90	86	98
10% Sulfuric Acid (pH 0.01)	91	84	99	97
100% Fuel C	100	89	100	98
0.1% Detergent (pH 10)	100	99	96	93
0.1% Soap Solution (pH 7)	100	100	100	98
100% Vegetable Oil	94	97	88	97

90	95	100	100
86	100	93	93
98	96	92	100
100	96	96	100
97	96	97	93
100	100	98	100
100	90	94	98
94	88	82	100
97	100	99	98
82	88	97	96

**Other Corrosion Testing (CIPP)**

1% Sodium Hydroxide (pH 12)	91	80	81	59
1% Sodium Hypochlorite (pH 11)	100	99	91	71
1% Ammonium Hydroxide (pH 11)	100	99	99	100

89	88	83	66
99	99	99	80
98	92	96	89

**Note:** Non-shaded regions are the applicable test durations as it relates to achievement of the minimum acceptable retentions.  
 All corrosion media maintained @ 73.4 ± 3.6°F (23 ± 2°C).

All specification and properties shown are approximate. Specifications and properties of material delivered may vary slightly from those given above. Interplastic Corporation makes no representations of fact regarding the material except those specified above. No person has any authority to bind Interplastic Corporation to any representation except those specified above. Final determination of the suitability of the material for the use contemplated is the sole responsibility of the Buyer. The Thermoset Resins Division's technical sales representatives will assist in developing procedures to fit individual requirements.