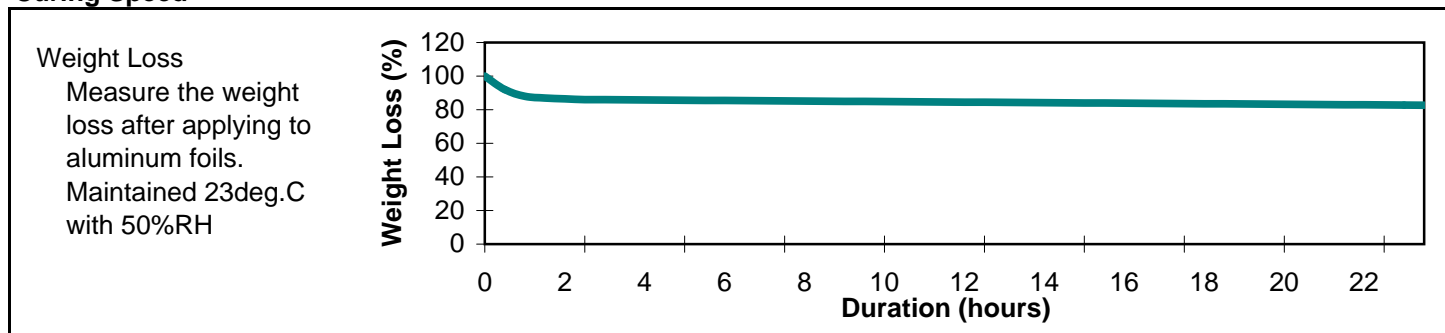


# SPECIFICATIONS

## Permeate™ HS-200 Sealer / Paint

	Units	Permeate HS-200		Measurement Method/Equipment used
		Clear	with color	
<b>Specific Gravity</b>	(H <sub>2</sub> O=1)	1.09	1.41	Specific Gravity Cups at 23 deg.C
<b>Viscosity</b>	cP	8.5	40+	Viscometer Type B 1-60 at 23 deg.C
<b>Color</b>	Gardner Index	1	1	
<b>pH</b>		6		pH Paper Test
<b>NV(Nonvolatile matter)</b>	%	78.4	87.8	JISK5407(105deg.C for 3 hours)
<b>Surface Tension</b>	mN/m	26.5		Wilhelmy Plate Measurement Equipment
<b>Refractive Index</b>		1.45		Atago Handheld Refractive Meter R-5000
<b>Flash Point</b>	degree F	131		Seta Closed System
<b>Adhesive Strength on Galvanized Steel</b>	N/mm <sup>2</sup>	Blue (no polish)	5	JIS J5600 5.7 Pull Off Method
		Blue (Sm/Rz=15)	7	
<b>Adhesive Strength on Steel Surface</b>	N/mm <sup>2</sup>	Blue(Sand Blast)	7	JIS J5600 5.7 Pull Off Method

### Curing Speed



Tackiness to Touch	Within 1 hours	It will not stick to the finger but leaves finger print		
	After 24 hours	It will not leave any mark		
Pencil Hardness Test	After 3 days	HB	HB	Maintained 23deg C/50%RH
	After 1 week	2H to 3H	2H to 3H	
	After 1 month	3H	3H	
Film Hardness Test (N/mm <sup>2</sup> )	After 1 week	3.7	6.3	Film thickness 0.3 to 0.4mm Maintained 23deg C/50%RH
	After 1 month	13	10	
Film Elongation	After 1 week	4.8%	2.5%	Toyo-Baldwin Tensilon UTM-5T
	After 1 month	4.8%	3.9%	

Manufactured by: D & D Corporation, Mie-ken, Japan

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