11/11/04

CON 04-173 Project

ASTM D 6083-97a

Standard Specification for Liquid Applied Acrylic Coating Used in Roofing

Physical Property	ASTM Test	Requirement	DFC-W Rhino Shield	Permabond Ultra Prime
I Colloidal properties				
Viscosity (KU)	D 562	85-141	105.3	99.9
Viscosity (Brookfield LVT #4 @ 6 rpm)	D 2196	12-85 poise		
Volume solids (% calculated)	D 2697	>50		
Weight solids (%)	D 1644	>60	57.1	35.7
II Mechanical properties of the film Tensile-elongation testing conditions: (1/2" sample width, 1" jaw separation, 1"/minute speed of pull) A. After 14 days drying in standard lab conditions				
A. After 14 days drying in standard la Tensile strength ¹ @ 73°F	D 2370	>=200 lb/in ²	377	65
Elongation ¹ at break @ 73°F	D 2370	>=100 %	398	2642
B. After 1000 hours aging in a Xenon Arc Weatherometer				
Elongation ¹ at break @ 73°F	D 2370	>=100 %	139	2279
Flexibility @ -15 °F (1/2" mandrel)	D 522	Pass		
Accelerated weathering (cracking & Checking)	D 4798	Nil	Nil	Nil
III Other properties of the film				
Wet Adhesion ² -Polyurethane foam	C 794/ D 903	>2 lb/in	0.11	0.89
Wet Adhesion ² -Galvanized	C 794/ D 903	>2 lb/in	3.40	3.92
Tear Resistance ¹ (Die C)	D 624	>60 lbf/in	133.0	29.1
Permeance ² - Inverted	D 1653A	<50 perms	32.7	3.2
Permeance- Upright	D 1653A	NR	24.3	3.9
Water swelling ¹	D 471	<20 weight %	11.9	37.6
Fungi resistance	G 21	Zero	ND	ND
IV Other non-required test results				
Dry Adhesion ² -Polyurethane foam	C 794/ D 903	NR	1.40	3.20
Dry Adhesion ² -Galvanized	C 794/ D 903	NR	10.42	4.40
NT = Not tested $NR = Not required$ ¹ Only three specimens tested ² Only two specimens tested.				

The descriptions, designs and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. NO WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from the use thereof, all such being given to you and accepted by you at your risk.

BASF Corporation Charlotte Technical Center 11501 Steele Creek Road Charlotte, North Carolina 28273 (704) 588-5280 800-395-5152

