POLAR SEAL PRIME SECURITY®

BASIC DATA:

TYPE OF RESINS……..ACRYLIC
LATEX EMULSION APPEARANCE WHEN APPLIED……OPAQUE
EMULSION APPEARANCE WHEN DRY……TRANSPARENT
VINYL CONTENT……NONE
PLASTICIZER CONTENT……..NONE
RESINS SOLIDS…….... 62% BY WEIGHT
PIGMENT SOLIDS……<01%
VISCOSITY…….APPROXIMATELY 900 CPS
WEIGHT PER GALLON…… 8.9 LBS
PH…… 8.25 TO 8

PHYSICAL PROPERTIES:

THE FOLLOWING INFORMATION IS BASED ON A 20 MIL DRY MEMBRANE THAT WAS APPLIED IN 2 COATS, THE FIRST MEMBRANE APPLICATION WAS ALLOWED TO DRY 24 HOURS BEFORE THE SECOND COAT WAS APPLIED. THE COMPLETED MEMBRANE WAS ALLOWED TO CURE 7 DAYS AT A ROOM TEMPERATURE OF 70° F. AND 40% R-H.

LOW TEMPERATURE FLEXIBILITY (180° NO MANDREL) PASSES……..30% BELOW ZERO

ELONGATION AT 70° F. 20 MIL FILM (STRAIN RATE 200% PER MINUTE)……159%

RECOVERY AFTER 500% ELONGATION AT 70° F…… 96%

SURFACE PROPERTIES WHEN DRY……HIGH TACK

SURFACE PROPERTIES WHEN WET……VERY SLIPPERY

TOXIC RESIDUE IN WATER RUN OFF…… NONE

AN S.H.D. .75 FIBERGLASS MAT WAS ENCAPSULATED BETWEEN 2 APPLICATIONS OF PRIME SECURITY, AN APPLICATION RATE OF 1.5 GALS PER 100 SQ. FT. (IN EACH OF 2 COATS) IT WAS ALLOWED TO CURE FOR 7 DAYS AT 70° AND R-H OF 40%.
TWO SAMPLES WERE CUT FROM THIS APPLICATION, ONE WAS USED FOR THE TENSILE STRENGTH TEST IDENTIFIED BELOW AS (T1) THE SECOND SAMPLE WAS USED TO PERFORM THE MOISTURE VAPOR TRANSMISSION TEST, IT IS IDENTIFIED AS (T2)
THE TENSILE STRENGHT (ON SAMPLE T1) USING PROCEDURES SET FORTH IN (ASTM D-2370-68) WAS RECORDED AT…..1,925.PSI
THE MOISTURE VAPOR TRANSMISSION TEST WAS MADE ON SAMPLE (T2) (ASTM E96 PROCEDURE – B). THE TEST WAS CONDUCTED FOR A PERIOD OF 20 DAYS. ROOM TEMP. -70° F. AVERAGE RELATIVE HUMIDITY—40%. AVERAGE MOISTURE VAPOR TRANSMISSION 0.00024 PERM IN 24 HOURS.
PASSAGE OF BULK WATER THRU 20 MILL PRIME SECURITY MEMBRANE (MEMBRANE ELONGATED 500%)……NO TRACE
RESISTANCE OF PRIME SECURITY MEMBRANE TO CONSTANT PONDING WATER (24 MONTHS)……EXCELLENT
(WE HAVE A CARDBOARD BOX LINED WITH PRIME SECURITY & FIBERGLASS THAT HAS BEEN HOLDING WATER FOR MANY YEARS)
THE FOREGOING ASTM AND LABORATORY TESTS WERE CONDUCTED BY LABORATORIES INDEPENDENT OF POLAR SEAL, INC., AND ARE BELIEVED TO BE TRUE AND ACCURATE. THIS DATA IS SUBJECT TO CHANGE AND IMPROVEMENT WITHOURT NOTICE DUE TO THE ONGOING RESEARCH BY POLAR SEAL, INC.

PRODUCT FEATURES:

EXCELLENT WEATHER RESISTANCE+IMPACT RESISTANCE+CHIP AND CRACK RESISTANCE+LOW TEMPERATURE FLEXIBILITY +EXCELLENT ELONGATION PROPERTIES AND OUTSTANDING ADHESION TO MOST COMMON MATERIALS INCLUDING:

ASPHALT	COPPER	NYLON
ASPHALT ROLLED ROOFING	*EPDM	P.V.C.
ASPHALT SHINGLES	FIBERGLASS (FORMED)	PAINT
#ALUMINUM	FIBERGLASS MAT	PARTICLE BOARD
ASBESTOS PRODUCTS	FLOOR TILE (ADHESIVE)	PLASTER
B.U.R.	FOAM RUBBER	PLASTER BOARD
#BRASS	#GALVANIZED STEEL (NEW)	*PLASTICS
BRICK	GALVANIZED STEEL (RUSTED)	POLYURETHANE FOAM
BEADBOARD	GLASS	POLYESTER SCRIM
CANVAS	*INSULATION BOARD	RUBBER
CARPETING (ADHESIVE)	LEATHER	*SLATE
CARDBOARD	MASONITE	#STEEL (NEW & RUSTED)
CHIPBOARD	MORTAR	STYROFOAM
CLOTH	TOMBSTONES (ALL TYPES OF STONE)	WAFER BOARD
COAL TARS (ROOFS)	TILE	WOOD
CONCRETE		

*MAKE SAMPLE TEST ON EACH BRAND OF PRODUCT, FOR ADHESION, BEFORE JOB IS STARTED
#REMOVE ANY SURFACE OIL BEFORE APPLYING PRIME SECURITY.