



TECHNICAL DATA SHEET

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POLYURETHANE MODIFIED
CERAMIC COATING
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PRODUCT: A water-base, elastomeric coating fortified with ceramic beads and modified with polyurethane for superior durability, flexibility, heat, UV, and weather resistance.

DESCRIPTION: An elastomeric coating formulated with a blend of acrylic elastomeric resins and polyurethane dispersions to provide excellent exterior durability with UV resistances to resist fade. This coating can be used as a system for roofs along with fiberglass membranes and cloth. It has excellent flexibility for expansion and contraction resistance. It can be used over hairline cracks. It is fortified with ceramic beads for increased protection against heat and sun damage. It is also modified with a Polyurethane dispersion that adds excellent elongation, tensile strength, and UV resistances.

PROPERTIES: COLORS.....Full Range
SOLIDS(Weight).....71 - 74%
SOLIDS(Volume).....53 - 56%
THEORETICAL COVERAGE.....100 sq.ft/gal
ELONGATION.....325 - 350%
DRYING TIME-AT 75 DEGREES F:
TO TOUCH.....4 Hours
TO RECOAT.....Overnight
VEHICLE TYPE.....Elastomeric/Acrylic
WEIGHT/GAL..... 12.2 to 12.4 lbs/gal

ADVANTAGES: (1). Low Volatile Organic Compound Content
(2). Excellent Exterior Durability
(3). Excellent Flexibility
(4). Extremely Weather Resistant
(5). Water Reducible
(6). Ceramic/Polyurethane Fortified.



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- USES:**
- (1). Aluminum
 - (2). Concrete
 - (3). Polyurethane Roofs
 - (4). Wood Roofs
 - (5). Walls
 - (6). Galvanized Steel
 - (7). Stucco

APPLICATION & REDUCTION:

Intrepid's Ceramic Coating is ready for use at packaged consistency. For brushing and rolling, use at packaged consistency.

For spraying, thin only as needed for proper atomization. Thinning is not normally recommended.

SURFACE PREPARATION:

Surface must be clean, dry and free of all contamination before application. Cracks and imperfections must be patched, mildew removed, loose or peeling paint removed by sanding or scraping.

STEEL:

Surface must be clean and free of all oil, grease and foreign material. Badly rusted or pitted steel should be cleaned by commercial sandblasting and primed the same day.

TYPICAL FILM POPERTIES:

Tensile (ASTM D882):	6200 psi
Tensile at 100% Elongation:	2450 psi
Elongation (ASTM D882):	350%
Cold Crack (ISO-17233):	<-30°C
Softening Point:	210°C
Pencil Hardness (ASTM D3363):	2B
Sward Hardness (ASTM D2134):	32



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UV Resistance (ASTM D4587):	No Damage (1000 Hours @ 340nm)
Impact Resistance (ASTM D2794):	No Damage @ 160 psi
Taber Abrasion (ASTM D4060):	11mg Loss (CS-10, 1000g, 1000 cycles)
Mandrel Bend (ASTM D522):	Pass 1/8"+
Dry Time ASTM D5895):	60 Minutes
Hydrolysis Resistance:	Retained 80% of Tensile Properties (200 hrs, 70°C)

CHEMICAL RESISTANCE TESTING (ASTM D1308):

(Note: 5=no damage to films dried 15 minutes at 80°F, then equalized at room temperature for 7 days.)

Water:	5
Acetic Acid:	5
Ammonia:	5
Methyl Ethyl Ketone:	5
2-Propanol:	5
Toluene:	5
Gasoline:	5

VARIOUS SUBSTRATE CROSS-CUT ADHESION (ASTM D3359):

Cold Roll Steel - Unpolished:	5B
Aluminum - Untreated:	5B
Brass - Untreated:	5B
ABS - Untreated:	0B
Polycarbonate - Untreated:	0B
Nylon - Untreated:	5B
HDPE - Untreated:	0B

PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN.
Do not take internally.
Avoid breathing vapor or mist.
Do not use in tank or pit without proper protection.
Read Material Safety Data Sheet before use of this product.