



TECHNICAL DATA SHEET

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CLEAR WATERBORNE POLYURETHANE SEALER
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PRODUCT: An air-dry, water-base, self cross-linking, polyurethane sealer.

DESCRIPTION: A high grade clear water reducible self cross-linking polyurethane waterborne emulsion that forms a clear film that is tough and flexible. It is under 100 g/l VOC and NMP and APEO free. It has superior UV resistance and outstanding mar and block resistance as well as extreme chemical resistance. It is very quick dry and can have light traffic after overnight dry. It is for use on concrete flooring, masonry, furniture, wood floors, and many types of plastics.

PROPERTIES:

APPEARANCE.....	Water white Emulsion
GLOSS.....	Flat to Gloss (Full Range)
SOLIDS (WEIGHT)	32-34%
pH.....	8.0-10.0
V.O.C. CONTENT.....	<100 g/l

DRYING TIME-AT 75 DEGREES F:

SET-TO-TOUCH.....	10-15 MINUTES
DRY HARD.....	1 HOUR
DRY THROUGH.....	4 HOURS
THEORETICAL COVERAGE.....	300 - 350 SQ.FT/GAL

ADVANTAGES:

- (1). Water Base
- (2). Fast Hardness Development
- (3). Mar Resistant
- (4). Excellent Stain Resistance
- (5). Outstanding Adhesion
- (6). Excellent Solvent & Chemical Resistant

USES:

- (1). Furniture
- (2). Wood Floors
- (3). Railings
- (4). Anti-Graffiti Coating
- (5). Bar Tops
- (6). Plastics
- (7). Masonry and Concrete Flooring



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APPLICATION & REDUCTION:

Intrepid's waterborne polyurethane sealer may be applied by brush, roll or airless spray application. For spraying, use as is. A pad applicator is recommended for application of clear to floors to prevent air bubbles from forming in the film.

SURFACE PREPARATION:

Surface must be clean, dry and free of all contamination before application.

WOOD:

Surface must be clean and free of all oil, grease and foreign material. Badly worn or rough wood should be sanded smooth and then cleaned with a tack rag.

TYPICAL FILM PROPERTIES:

Tensile (ASTM D882):	4840 psi
Tensile at 100% Elongation:	2600 psi
Elongation (ASTM D882):	331%
Cold Crack (ISO-17233):	<-30°C
Softening Point:	155°C
Pencil Hardness (ASTM D3363):	HB
Sward Hardness (ASTM D2134):	24.3
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 81% of Tensile Properties (200 hrs, 70°C)



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CHEMICAL RESISTANCE PROPERTIES:

Note: 5= no damage films dried for 15 minutes at 80°C then equalized at room temperature for 7 days.

Water: 5
Acetic Acid: 5
Methyl Ethyl Ketone: 3
2-propanol: 3
Toluene: 5
Gasoline: 5

VARIOUS SUBSTRATE CROSS-CUT ADHESION (ASTM D-3359):

Unpolished Cold Rolled Steel: 5B
Aluminum - Untreated: 3B
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.
Keep from Freezing.