



TECHNICAL DATA SHEET
Product Name: ToughSkin XPAND™

Product Description:

WeatherAll Coatings Technologies Industrial Materials Division™ brings a very unique material to the commercial infrastructure protective coatings markets. This material is used as the base component in our commercial roofing systems. It offers an expanding crack and hole bridging characteristic paralleled with resilient skin cushion and toughness. It takes rough and dis-continuous adjoining surfaces, screw heads, rust holes, etc. and bridges over them to form a strong smooth flexible unitized blanket. Other typical demanding applications include sealing up metal cracked foundation basement walls, exterior steel panel enclosures, emergency roofing repair after hurricanes, high expansion and contracting surfaces, structural steel beams and fastening joints, marine composite sound deadening, containment lining and very much more.

Material Property Values and Application Requirements Table

Property	*Values relative to density	Test Method
Densities w/Integral Skin	15 (.24), 25(.4), 36(.58) lb/ft ³ (g/cm ³)	ASTM D3489
Viscosity (cps) Zahn #2	1000 A-Side, 1200 B-Side	ASTM D4212
Tensile Strength	*<2000	ASTM D412
Flexibility	All Pass	ASTM D1737
Tear Strength	*>110 lb/ lin. in.	ASTM D2240
Adhesion	Max. (cohesive failure)	ASTM D1876
Abrasion Resistance	55 mg loss /1000 cycles	ASTM D4060 (CS-17)
Hardness	Shore A75-40D	ASTM D785
Elongation %	*200-400%	ASTM D412
Water Absorption	*<.05%	ASTM D2842-01
Application machine: 1800 psi 2-component pumping machine (i.e Graco EXP2), primary heat and hose heat 65°C- 80°C, round pattern spray tip 0.020 mil. **Make 1 pass for desired thickness**		
Mixing Ratio 1A:1B, Always Stir B-Side thoroughly using power stirring blade before using. Power Mix for 10 minutes until uniform color and viscosity.		
Surface Preparation: clean and dry, no residual cleaner or other contaminates, approved surface type, primer if required, installation ambient temp. 12°C- 36°C , <60% ambient humidity, surface temp. 15°C- 32°C.		
Tack Free Gel Time = 1 minute, walk-on time = 30 minutes, rel. cure time before an approved topcoat can be applied = 24 hrs, longest exposure time prior to protective topcoat = 30 days.		
Coverage: 0.016 mils per 100 sqft. Wet give 3X rise thickness (0.048 mils)		
See SDS for material safety data. Must wear eye goggles, respiratory protection, gloves, etc.		
KEEP MATERIAL FROM FREEZING, moisture-free temperature controlled storage 12°C- 32°C, 12 month shelf life if never opened. After opening reseal with Nitrogen blanket.		
Packaging: Tote set 550 gal (4900 lbs), 100 gal Drum set (900 lbs), 10 gal Pail set (90 lbs)		

Please contact our Engineering and/or Technical Support Groups with any questions.

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