



## PRODUCT DESCRIPTION

Maxflex 530 FM is a high performance fire protection polyurethane-polyurea thick elastomeric coating that was specially designed in order to provide high waterproofing performance and intumescent features.

## PRODUCT FEATURES

- High hydro insulation and waterproofing
- Good elasticity and flexibility
- High film build in one coat
- Can be used for full coating, repair kit, bonding layer
- Applied by brush, roller or airless spray
- Cold weather cures temperatures down to 15°F (- 10°C)
- Fire protection of steel and concrete for 1 to 4 hours depending on the DFT of the application

## TYPICAL USES

- Water proofing of concrete and wooden surfaces and industrial civilian buildings
- Fire resistance coatings

For professional use only.

## TECHNICAL DATA

		Drying times 68°F (20°C) based on 20 mils (0.5 mm) DFT	
<b>Colors:</b>	Ash gray	<b>Tack free :</b>	1 1/2 - 3 hours
<b>Gloss:</b>	Semi-gloss	<b>To recoat:</b>	5 hours
<b>Solids by volume:</b>	72 - 76 %	<b>Hard</b>	6 - 7 hours
<b>Solids by Weight:</b>	80 - 84 %	<b>Pot Life</b>	1 hour
<b>Theoretical Coverage of 1 mil:</b>	1187 ft <sup>2</sup> / U.S gallon	<b>Reduction solvent (if necessary):</b>	DE-300
<b>D.F.T. at 25 microns:</b>	110 m <sup>2</sup> / 3.78 liters	<b>Dilution:</b>	10% by volume
<b>Recommended WFT:</b>	70 - 110 mils depends on the application	<b>(if necessary)</b>	
<b>Dry film thickness:</b>	50 - 80 mils depends on the application	<b>Catalyst:</b>	530 C
<b>*Kit Specific gravity:</b>	1.20 - 1.30 kg/l	<b>Mixing Ratio:</b>	1:1 by volume
<b>Flash Point:</b>	24°C (75.2°F)	<b>Shelf life:</b>	24 months @ 25° C unopened
<b>V.O.C.:</b>	250 grams/liter 2.08 lbs / US gal	<b>Packaging:</b>	
		<b>Base:</b>	2 US gallon (7.57L)
		<b>Catalyst:</b>	2 US gallon (7.57L)

\*Data may vary for different colors  
Keep in cool dry area

## APPLICATION GUIDE

### SURFACE PREPARATION

Remove all detrimental foreign matter such as oil, grease, dirt, soil, salts, drawing and cutting compounds and other contaminants from steel surfaces. General use: If applied by squeegees, the dilution is not required, for application with spray equipment, could be diluted with 10% DE-300. Use one of the following recommendations:

- 1) Prepare surface in accordance with SSPC –SP – 11 (steel)
- 2) Prepare surface in accordance with SSPC –SP – 13 (concrete)

Apply MaxFlex 530 FM directly on metal surface or using MaxFlex 570. For application on concrete, apply Eclat's moisture cure primer (Guard or MF PUR) or Maxflex 570 with 4 mils DFT (100 microns) before application of MaxFlex 530 FM. (Refer to correspondent TDS for those products).



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## MIX AND THINING

First, power mix the base portion Maxflex 530 FM until it becomes homogenous. Secondly, add catalyst 530C slowly with continued agitation until both base & catalyst parts are well mixed together. Then product is ready for immediate use Dilution when applied by:

- Airless spray: by special equipment 10% dilution by volume with DE-300 if necessary
- Brush, roller or squeegee: Dilution is not required

## APPLICATION PROCESS

Substrate temperature	Dust free	Hard	RECOATING TIME**		
			Minimum	Maximum	Normal
68°F (20°C)	1.5 – 3 hours	6 – 7 hours	5 hours	30 days	12 hours
39°F (4°C)	3 – 5 hours	23 -26 hours	24 hours	30 days	24 hours
14°F (-10°C)	18 – 20 hours	40 - 48 hours	48 hours	30 days	48 hours

\*\* After 30 days light sanding is required

Application by spray, brush, roller as recommended below.

Application system depends on fire resistance rating requirements.

**Option #1:** Directly to 5mm (minimum) steel thickness with 50 - 80 mils DFT. Surface preparation should be as per SSPC-SP6 with 2-3 mils surface profile.

**Option #2:** To prime first 5mm (minimum) steel thickness with 4 mils DFT with Maxflex 570. Then apply Maxflex 530 FM with 50 - 60 mils DFT. Surface preparation should be as per SSPC-SP11.

**Option #3:** For application over concrete, apply 4 mils DFT of Guard, MF PUR or Maxflex 570. The choice of the primer depends on the humidity in the concrete. Then apply Maxflex 530 FM with 50 - 80 mils DFT. Surface preparation should be as per SSPC-SP13.

## PHYSICAL PROPERTIES

### Properties under tension:

(ASTM D 412-C) Ultimate elongation = 130%

(ASTM D 412-C) Tensile = 631 PSI (4.36 N/mm<sup>2</sup>)

### Indication of hardness:

(ASTM D-2240) 75 Shore A /25 Shore D

### Adhesion by pull-off strength:

(ASTM D-4541) Directly to metal (SSPC-6) 500 PSI minimum

### Taber abrasion resistance:

(ASTM D-4060) 1000 cycles, 1000g load, CS-17 wheel: 42 mg

### Flexibility:

(ASTM D-522) Conical: Excellent

### Impact resistance:

(ASTM D-2794) Direct @ 77°F (25°C); 160 in-lb (18.0 joules) -

Indirect @ 77°F (25°C); 160 in-lb (18.0 joules)

### Fire tests:

- Standard Practice for Intumescent Coatings (ASTM E 2924)

- Fire resistance ratings (ANSI/UL 263/GOST P53295)

Maxflex 530 FM - DTM on sandblasted metal with 2-3 mils

profile 60-80 mils DFT - FR Resistance: 240 minutes +

60-80 mils DFT - FR Resistance: 240 minutes +

50-60 mils DFT - FR Resistance: 100 minutes +

## SPECIAL INSTRUCTIONS & PRODUCT LIMITATIONS

- Thinner can be added depending on local voc and air quality regulations
- Shelf life: 24 months @ 25°C (77°F) unopened
- Surface temperature must be at 5°F (3°C) above the dew point during application

See the material safety data sheet and product label for complete safety and precaution requirements.

**DISCLAIMER:** "The following is made in lieu of all warranties, expressed or implied: Manufacturer's obligation shall be to replace such quantity of the product proven to be defective. The manufacturer shall not be liable for any injury, loss or damage, direct or incidental or consequential, arising out of the use of or the inability to use the product. Before using, the user shall determine the suitability of the product for the intended use and the user assumes all risk and liability whatsoever in connection therewith. All values shown are approximations. Values indicated are for guide purposes only, as actual values can change due to application conditions, application methods, environmental conditions etc. The information contained herein is subject to change without notice. Consult your representative for a current data sheet. The foregoing may not be altered except by an agreement signed by the officers of the manufacturer."



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