

PRODUCT DATA SHEET

ENDURA-SHIELD® II SERIES 1075U

A BURNIA P TO COURSE A TO						
GENERIC DESCRIPTION	Aliphatic Acrylic Polyurethane					
COMMON USAGE	NUSAGE A coating highly resistant to abrasion, wet conditions, corrosive fumes and exterior weathering. High bui					ligh build quality
	absorbers for enhanced	color and gloss retention	. Fast curing	options are	available; see Curing Tir	ne below. Product has
	some applications as a d SERVICE.	lirect to metal finish. Cor	itact your The	emec represe	entative for more details.	NOT FOR IMMERSIO
COLORS	Refer to Tnemec Color C	Guide. Note: Certain colo	rs may requir	e multiple c	oats depending on meth	od of application and
	finish coat color. When feasible, the preceding coat should be in the same color family, but noticeably different.					
FINISH	Semi-gloss					
SPECIAL QUALIFICATIONS	Series 1075U meets the requirements of SSPC-36 (level 3) Paint Standard.					
PERFORMANCE CRITERIA	Contact your Tnemec rej	presentative for specific	test results.			
DATING SYSTEM						
PRIMERS	Steel: Series 1, 20, FC20, N140F, V140, V140F, 141 Galvanized Steel and No Concrete: Series 66, L69, CMU: 54-660, 130. Intern Note: Before topcoating	27, 66, L69, L69F, N69, 1 1, 161, 394, 530 n-Ferrous Metal: Series 2 L69F, N69, N69F, 84, 10 nediate coat required. with Series 1075U, Serie:	N69F, V69, V6 27, 66, L69, L6 4, 161 s 530 exterior	69F, 90-97, 9 69F, N69, N6 exposed fo	1-H ₂ O, 94-H ₂ O, 104, 13 9F, 135, 161 r more than 24 hours mu	5, L140, L140F, N140, ust first be scarified or
	receive an intermediate of sheets for additional info	coat of Tnemec polyamic prmation.	de epoxy. Rec	coat window	s for other primers may	apply. See those data
RFACE PREPARATION						
ALL SURFACES	Must be clean, dry and f recommendation.	ree of oil, grease and oth	ner contamina	ints. See pri	mer product data sheet f	or surface preparation
CHNICAL DATA						
	-					
VOLUME SOLIDS	$71 \pm 2.0\%$ (mixed) †		N7 1 C	. 1.1		
KECOMMENDED DFI	application method and	exposure. Contact your '	: Number of Tnemec repre	coats and the	ickness requirements wi	Ill vary with substrate,
CURING TIME	Temperature	To Hand	dle	Т	Recoat	Resist Moisture
	95°F (35°C)	4 hour	4 hours		5 hours	3 hours
	75°F (24°C)	6 hour	6 hours		3 hours	5 hours
	55°F (13°C)	12 hou	urs 1		6 hours	9 hours
	35°F (2°C)	36 hou	36 hours 48 hours		8 hours	20 hours
THE ORGANIC COMPOLINDS	Curing time varies with s before the applicable cu and low-temperature app Technical Services for fo	surface temperature, air 1 re parameters are met, d plications, add No. 44-71 rce curing times and tem	movement, hu ull, flat or spo 0 Urethane A operatures.	umidity and otty appearin ccelerator; s	film thickness. If coating ng areas may develop. N ee separate product data	g is exposed to moistu fote: For faster curing a sheet. Contact Tnem
ULATILE UKGANIC COMPOUNDS	Unthinned	Maximum 15%	Max 15%		Max 15%	Max 15%
	2.16 lbs/gal (258 g/l)	2.70 lbs/gal (323 g/l)	2.75 lbs/ga	1 (330 g/l)	2.83 lbs/gal (339 g/l)	2.27 lbs/gal (271 g/
	2110 100/ gui (290 g/1)		2179 1007 ga	1 (330 81)	2103 100, gai (337 g/1)	2.2, 100, gui (2, 1 g)
HAPS			Max 15% (No. 42 Thin.)		Max 15%	May 1506
HAPS	Unthinned	Maximum 15% (No. 39 Thin.)	(No. 42		(No. 48 Thin.)	(No. 56 Thin.)
HAPS	Unthinned 0.0 lbs/gal	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal	(No. 42 0.0 lb	s/gal	(No. 48 Thin.) 0.0 lbs/gal	(No. 56 Thin.)
HAPS Theoretical coverage	Unthinned 0.0 lbs/gal 1,132 mil sq ft/gal (27.8	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m²/L at 25 microns). See	(No. 42 0.0 lb: APPLICATIO	s/gal N for covera	(No. 48 Thin.) 0.0 lbs/gal age rates. †	(No. 56 Thin.) 0.0 lbs/gal
HAPS THEORETICAL COVERAGE NUMBER OF COMPONENTS	Unthinned 0.0 lbs/gal 1,132 mil sq ft/gal (27.8 Two: Part A and Part B	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m²/L at 25 microns). See	(No. 42 0.0 lb APPLICATIO	s/gal N for covera	(No. 48 Thin.) 0.0 lbs/gal age rates. †	(No. 56 Thin.) 0.0 lbs/gal
HAPS Theoretical coverage Number of components Mixing Ratio	Unthinned 0.0 lbs/gal 1,132 mil sq ft/gal (27.8 Two: Part A and Part B By volume: Eight (Part A	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m ² /L at 25 microns). See () to one (Part B)	(No. 42 0.0 lb APPLICATIO	s/gal N for covera	(No. 48 Thin.) 0.0 lbs/gal age rates. †	(No. 56 Thin.) 0.0 lbs/gal
HAPS THEORETICAL COVERAGE NUMBER OF COMPONENTS MIXING RATIO PACKAGING	Unthinned 0.0 lbs/gal 1,132 mil sq ft/gal (27.8 Two: Part A and Part B By volume: Eight (Part A	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m²/L at 25 microns). See .) to one (Part B) PART A (Partia)	(No. 42 0.0 lb. APPLICATIO	s/gal N for covera	(No. 48 Thin.) 0.0 lbs/gal age rates. † (Partially filled)	(No. 56 Thin.) 0.0 lbs/gal
HAPS Theoretical coverage Number of components Mixing Ratio Packaging	Unthinned 0.0 lbs/gal 1,132 mil sq ft/gal (27.8 Two: Part A and Part B By volume: Eight (Part A 3 Gallon Kit	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m²/L at 25 microns). See .) to one (Part B) PART A (Partia 5 gallon	(No. 42 0.0 lb. APPLICATIO	s/gal N for covera PART B 1/2	(No. 48 Thin.) 0.0 lbs/gal age rates. † (Partially filled) gallon pail	(No. 56 Thin.) 0.0 lbs/gal When Mixed 3 gallons (11.4L)
HAPS Theoretical coverage Number of components Mixing Ratio Packaging	Unthinned 0.0 lbs/gal 1,132 mil sq ft/gal (27.8 Two: Part A and Part B By volume: Eight (Part A 3 Gallon Kit 1 Gallon Kit	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m²/L at 25 microns). See .) to one (Part B) PART A (Partia 5 gallon 1 gallon	(No. 42 0.0 lb APPLICATIO ully filled) pail	PART B 1/2	(No. 48 Thin.) 0.0 lbs/gal age rates. † (Partially filled) gallon pail pint can	(No. 56 Thin.) 0.0 lbs/gal When Mixed 3 gallons (11.4L) 1 gallon (3.79L)
HAPS THEORETICAL COVERAGE NUMBER OF COMPONENTS MIXING RATIO PACKAGING NET WEIGHT PER GALLON	Unthinned 0.0 lbs/gal $1,132 \text{ mil sq ft/gal (27.8)}$ Two: Part A and Part BBy volume: Eight (Part A 3 Gallon Kit 1 Gallon Kit $11.84 \pm 0.25 \text{ lbs (5.37 \pm)}$	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m²/L at 25 microns). See .) to one (Part B) PART A (Partia 5 gallon 1 gallon 11 kg) †	(No. 42 0.0 lb APPLICATIO	PART B 1/2 1	(No. 48 Thin.) 0.0 lbs/gal age rates. † (Partially filled) gallon pail pint can	When Mixed 3 gallons (11.4L) 1 gallon (3.79L)
HAPS THEORETICAL COVERAGE NUMBER OF COMPONENTS MIXING RATIO PACKAGING NET WEIGHT PER GALLON STORAGE TEMPERATURE	Unthinned 0.0 lbs/gal $1,132 \text{ mil sq ft/gal (27.8)}$ Two: Part A and Part BBy volume: Eight (Part A 3 Gallon Kit 1 Gallon Kit $11.84 \pm 0.25 \text{ lbs (5.37 \pm)}$ Minimum 20°F (-7°C)	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m²/L at 25 microns). See a) to one (Part B) PART A (Partia 5 gallon 1 gallon 11 kg) † Maximum 110°F (43°C)	(No. 42 0.0 lb APPLICATIO ully filled) pail pail	PART B 1/2	(No. 48 Thin.) 0.0 lbs/gal age rates. † (Partially filled) gallon pail pint can	(No. 56 Thin.) 0.0 lbs/gal When Mixed 3 gallons (11.4L) 1 gallon (3.79L)
HAPS THEORETICAL COVERAGE NUMBER OF COMPONENTS MIXING RATIO PACKAGING NET WEIGHT PER GALLON STORAGE TEMPERATURE TEMPERATURE RESISTANCE	Unthinned 0.0 lbs/gal 1,132 mil sq ft/gal (27.8 Two: Part A and Part B By volume: Eight (Part A 3 Gallon Kit 1 Gallon Kit 11.84 ± 0.25 lbs (5.37 ± . Minimum 20°F (-7°C) (Dry) Continuous 250°F	Maximum 15% (No. 39 Thin.) 0.0 lbs/gal m²/L at 25 microns). See a) to one (Part B) PART A (Partia 5 gallon 1 gallon 11 kg) † Maximum 110°F (43°C) (121°C)	(No. 42 0.0 lb APPLICATIO ully filled) pail pail 275°F (135°C)	PART B 1/2	(No. 48 Thin.) 0.0 lbs/gal age rates. † (Partially filled) gallon pail pint can	(No. 56 Thin.) 0.0 lbs/gal When Mixed 3 gallons (11.4L) 1 gallon (3.79L)

PRODUCT DATA SHEET

ENDURA-SHIELD® II | SERIES 1075U

HEALTH & SAFETY

Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.

APPLICATION

COVERAGE RATES

Conventional Build (Spray, Brush or Roller)

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	2.5 (65)	3.5 (90)	456 (42.3)
Minimum	2.0 (50)	3.0 (75)	569 (42.9)
Maximum	3.0 (75)	4.0 (100)	380 (35.3)

High-Build (Spray Only)

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	4.0 (100)	5.5 (140)	285 (26.5)
Minimum	3.0 (75)	4.0 (100)	380 (35.3)
Maximum	5.0 (125)	7.0 (180)	228 (21.2)

Note: Can be spray applied at 3.0 to 5.0 mils (75 to 125 microns) DFT per coat when extra protection or the elimination of a coat is desired. Allow for overspray and surface irregularities. Wet film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. †

Stir contents of the container marked Part A, making sure no pigment remains on the bottom. Add the contents of the can marked Part B to Part A while under agitation. Continue agitation until the two components are thoroughly mixed. When used with 44-710 Urethane Accelerator, first blend 44-710 into Part A under agitation; continue as above. Do not use mixed material beyond pot life limits. **Caution: Part B is moisture-sensitive and will react with atmospheric moisture. Unused material must be kept tightly closed at all times.**

For air or airless spray, thin up to 15% or 1 1/4 pints (570 mL) per gallon with No. 42 Thinner if temperatures are below 80° F (27°C), use No. 48 Thinner for temperatures above 80° F (27°C). For brush and roller, thin 15% or 1 1/4 pints (570 mL) per gallon with No. 39. Where lower VOC is required for air or airless spray, brush or roller application, thin up to 15% or 1 1/4 pints (570 mL) per gallon with No. 56 Thinner. **Note:** Thinning is required for proper application. **Caution: Do not add thinner if more than 30 minutes have elapsed after mixing.** THINNING

POT LIFE

MIXING

1 1/2 hours at 75°F (24°C) unthinned 2 hours at 75°F (24°C) thinned

APPLICATION EQUIPMENT

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	Е	704 or 765	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	75-90 psi (5.2-6.2 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

Maximum 120°F (49°C)

Airless Sprav

Air Sprav

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.009"-0.013"	3000-3500 psi	1/4" or 3/8"	100 mesh
(230-330 microns)	(207-241 bar)	(6.4 or 9.5 mm)	(150 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions. **Roller:** Use 1/4" or 3/8" (6.4 mm or 9.5 mm) synthetic woven nap roller covers. Do not use long nap roller covers. Two coats are required to obtain dry film thickness above 3.0 mils (75 microns). **Brush:** Recommended for small areas only. Use high quality natural or synthetic bristle brushes. Two coats are required to

obtain recommended film thickness above 3.0 mils (75 microns).

SURFACE TEMPERATURE Minimum 35°F (2°C) The surface should be dry and at least 5°F (3°C) above the dew point.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or MEK.

† Values may vary with color.

WARRANTY & LIMITATION OF SELLERS LIABILITY: Themec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Themec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIS THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Themec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Themec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL BE AVAILABLE TO THE BUYER. Technical and application information here in is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Themec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

6800 Corporate Drive Kansas City, Missouri 64120-1372 1-800-TNEMEC1 Fax: 1-816-483-3969 www.tnemec.com nec Company Incorporated