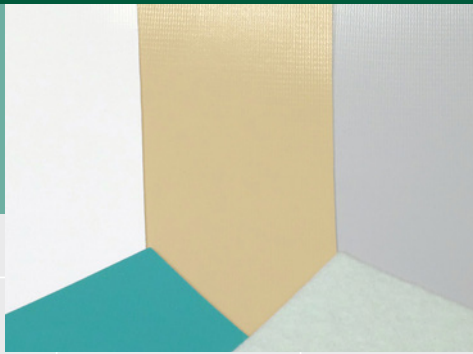


TremPly® KEE and KEE FB Single Ply Systems



A reinforced polyester knit fabric with a proprietary hybrid thermoplastic alloy coating

FEATURES

- Elvaloy KEE flexibilizer
- Heavy duty reinforcement
- Full bond around fiber reinforcement
- Fleeceback and smooth versions

BENEFITS

- Superior flexibility, UV resistance and chemical resistance
- Excellent tear strength and puncture resistance
- Maximum seam strength for long term performance
- Multiple application methods to meet project specific needs

DESCRIPTION:

TremPly® KEE and KEE FB (Fleeceback) Systems not only meet or exceed the minimum physical property requirements enumerated in ASTM D6754-02 Standard Specification for Ketone Ethylene Ester (KEE) based sheet roofing, but exceed the physical properties and performance characteristics of much thicker competitive products.

TremPly KEE membranes are available in 45 mil and 60 mil thickness; smooth and fleeceback versions; and in white, gray and tan which can all help an organization meet LEED requirements.

All TremPly KEE Roofing Membranes are constructed using high tenacity/ heavy weight yarns to create a base fabric reinforcement to impart superior puncture, tensile and tear resistance properties. The base polyester fabrics are primed with a unique and proprietary adhesive coat that lays the foundation to physically bond the KEE coatings to the “fiber” to maximize seam strength and overall membrane performance.

TremPly KEE is coated to provide superior hot air welding characteristics, extreme UV resistance, broad chemical resistance and long-term flexibility and reparability for the installed roofing membrane system. TremPly KEE Roofing Systems have excellent tear, puncture, fungus, algae and flame resistance, making them among the most sustainable roofing systems available.

BASIC USES:

TremPly KEE and KEE FB single ply roofing systems are designed to provide superior performance and exceptional value; the white, tan or gray surfaces absorb much less heat than a black roof, which can help lower a facility's energy use and improve its appearance. They are excellent choices for roof overlays, replacement and new construction alike.

APPLICATION:

TremPly KEE Roofing Systems carry extensive FM Global and Underwriters Laboratories' approvals. TremPly KEE Roofing Systems can be installed by mechanically fastening or adhering the membrane bonding adhesive. TremPly KEE can also be installed in typical ballast configurations using conventional stone or paver ballast. Field seaming is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment.

APPROVED ATTACHMENT METHODS:

	TremPLY KEE	TremPLY KEE FB
Tremply KEE Bonding Adhesive	NO	Yes
Tremply KEE LV Bonding Adhesive	Yes	NO
Tremply KEE WBII Bonding Adhesive	Yes	NO
TremPLY KEE Plus Stress Plates	Yes	NO

TremPly KEE is manufactured in 37" and 74" wide by 100' long rolls. KEE FB is manufactured in 72" wide by 80' long rolls.

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The application information provided in this data sheet serves as general guidance. Please refer to Tremco application guides and project specific specifications or consult with your local Tremco Roofing sales representative for project specific application requirements. Refer to the Safety Data Sheet (SDS) for material precautions

PHYSICAL PROPERTIES:

	ASTM D 6754	KEE	KEE FB
Thickness <i>ASTM D 751 (inches)</i>	0.031	0.045 nom	0.060 nom
Thickness over Fiber optical method <i>(inches)</i>	0.006	0.014	0.016
Breaking Strength (MD/XMD) <i>D 751 proc. B - strip (lbf)</i>	265	520 / 406	520 / 406
Elongation at Break (MD/XMD) <i>D 751 - strip - min. %</i>	15	22 / 20	22 / 20
Tear Strength <i>ASTM D 751 Proc. B. Tongue Tear (lbf)</i>	75	150	150
Linear Dimensional Change <i>ASTM D 1204 max (%)</i>	1.3	0.6	0.6
Fabric Adhesion <i>D 751 min. (lb/in)</i>	13	no peel	no peel
Low Temperature Bend <i>ASTM D 2136 (°f)</i>	-30	-30	-30
Retention of Properties After Heat Aging <i>Practice D 3045 - 176°f / 56 days</i>			
Breaking Strength min. (% original)	90	90	90
Elongation min. (% original)	90	90	90
Low Temperature Bend <i>ASTM D 2136 (°f)</i>	-30	-30	-30
Change in Weight after Exposure in Water <i>D 471 158°f one side only, max. (%)</i>	0.0, +6.0	0.7	0.7
Seam Strength <i>D 751 Grab Method, min. (lbf)</i>	400	800	800
Hydrostatic Resistance (psi) <i>ASTM D751</i>	500	>1000	>1000
Static Puncture Resistance <i>ASTMD 5602 (99 lbf)</i>	pass	pass	pass
Dynamic Impact / Puncture Resistance <i>ASTM D 5635 min. (J)</i>	10	30	30
Accelerated Weathering <i>Practice G 155 / 5,000 h xenon</i>		>10,000 hr	>10,000 hr
cracking (7 x magnification)	none	none	none
crazing (7 x magnification)	none	none	none
Accelerated Weathering <i>Practice G 154 / 5,000 h UVA</i>		>10,000 hr	>10,000 hr
cracking (7 x magnification)	none	none	none
crazing (7 x magnification)	none	none	none

TremPly® KEE and KEE FB Single Ply Systems

PHYSICAL PROPERTIES: <i>(continued)</i>		ASTM D 6754	KEE	KEE FB
ENERGY ATTRIBUTES:	Fungi Resistance <i>Practice G 21, 28 days</i> Sustained Growth Discoloration	no growth none	none none	none none
	Abrasion <i>D 3389 H-18 wheel</i> <i>1,000 g load, (min. cycles)</i>	1,500	>2,000	>2,000
	Solar Reflectance-DC6 White Initial <i>ASTM C1549</i>	N/A	0.87	0.87
	Solar Reflectance (3 yr. Aged) <i>ASTM C1549</i>	N/A	0.71	0.71
	Initial Thermal Emittance <i>ASTM C1371</i>	N/A	0.85	0.85
	Thermal Emittance 3 yr Aged <i>ASTM C1371</i>	N/A	0.84	0.84
	Solar Reflective Index (SRI) <i>ASTM E1980</i>	N/A	110	110
	Solar Reflective Index (SRI) 3 yr aged <i>ASTM E1980</i>	N/A	86	86
	LEED 2.2 Heat Island Effect (SRI > 78) <i>SS Credit 7.2</i>	N/A	1 Credit	1 Credit
	MAINTENANCE:	Your local Tremco Roofing representative can provide you with effective maintenance procedures, which may vary depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.		
TECHNICAL SERVICES:	Please contact your local Tremco Roofing representative. Working with the Technical Service Staff, your representative can help analyze conditions and needs to develop recommendations for special applications.			



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www.tremcoroofing.com
 3735 Green Road
 Beachwood, Ohio 44122
 1.800.852.6013



50 Beth Neelson Drive
 Toronto, Ontario M4H 1M6
 1.800.668.9879

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