

PRODUCT
PRODUCT CODE
ECOFIN FG TNT 1.5mm
4GRG0215
Description

Ecofin polyolefin modified waterproofing membranes, otherwise known as a TPO (Thermoplastic Polyolefin) has all the physical properties which give the product stability (does not shrink), durability and flexibility.

Ecofin is compatible with bituminous membranes, asphalt, steel profile sheeting and asbestos sheeting and can be welded at temperatures of between 380-425°C achieving a quick and safe bond.

Ecofin is reinforced by the incorporation of a glass fibre carrier and finished on the underside with a polypropylene mat. Roll size 14.82 x 1.35m

Usage

Ecofin single ply membranes are ideal for all flat roof applications both new build and refurbishment . Ecofin can be adhered in Ecofix adhesive and bonded at the laps using an automatic welder or a Leister or similar hot air gun with temperature display and pressure roller.

UNI8202	CHARACTERISTICS	UNIT	MEASURE	TOLERANCE
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UNI8202	CHARACTERISTICS	UNIT	MEASURE	TOLERANCE
P3	Length	m	14.82	± 1%
P4	Width	m	1.35	± 1%
P6	Thickness	mm	1.5	± 5%
P7	Area Mass	Kg/m2	1.5	± 10%
P8	Tensile strength:-max load (long + across)	daNmm2	700	± 20%
	-Ultimate elongation: (longitudinal & transverse	%	650	± 15
P9/B	Tear strength: Max. load longitudinal & transverse	daN	42	≥ decl. value
P10	Residual deformation due to tensile stress	%	35	≥ decl. value
P11	Static punching strength on fibre cement	PS	5	≥ decl. value
P12	Dynamic punching strength on fibre cement	PD	3	≥ decl. value
P13	Assessment of fatigue strength on a slot			
P15	Cold flexibility	°C	-60	≤ decl. value
P16	Creep: at 90°C & INCLINED AT 90°	mm	0.1	≤ decl. value
P17	Dimensional stability after heat aging	%	-0.3	≤ decl. value
P17	Dimensional stability following the application of heat across	%	-0.2	≤ decl. value
P18	High temperature shape stability	°C	130	≥ decl. value
P20	Coefficient of thermal expansion between +20 & -20°C	cm/cm°C	45X10-6	≤ decl. value
P21	Waterproofing	Kpa	100	≥ decl. value
P22	Behaviour to water: absorption	%	1	≤ decl. value
P23	Water moisture transmission			
	μ = resistance factor against water vapour diffusion	μ	30,000	≥ decl. value
P24	Assessment of resistance to roots piercing action		COMPLIANT	compliance
P25	Fireproofing assessment		B2	
P26	Thermal aging in air	°C	-50	≤ decl. value
P27	Thermal aging assessment in water			
P28	Ozone resistance assessment			
P29	U.V. radiation resistance assessment			
P30	Joints tensile strength vs. 8202 p8	%	80	≥ decl. value
P31	Joints air proofing assessment	Kpa	10	≥ decl. value
P32	Joints fatigue strength assessment			
P33	Joints creep strength assessment			
P34	Joints thermal aging strength assessment			
SIA 280/8	Resistance to hail (rigid support)	m/s	20	≥ decl value
SIA 280/8	Resistance to hail (soft support)	m/s	25	≤ decl. value

PARAMETER TOLERANCES UNDER UEAtc DIRECTIVES

The above values are subject to updates and changes. Delta Waterproofing reserves the right to to change without

3	01-Apr-02	mod. P11 P12		
2	25-Jun-01	mod. P8 P9 P17	Tech. Office	R.Pinzan
1	13-Mar-00	area mass and thermal ageing in air		
REV.	DATE	REASON	VERIFIED	APPROVED

PRODUCT
PRODUCT CODE
ECOFIN FG TNT 1.8mm
4GRG0218
Description

Ecofin polyolefin modified waterproofing membranes, otherwise known as a TPO (Thermoplastic Polyolefin) has all the physical properties which give the product stability (does not shrink), durability and flexibility.

Ecofin is compatible with bituminous membranes, asphalt, steel profile sheeting and asbestos sheeting and can be welded at temperatures of between 380-425°C achieving a quick and safe bond.

Ecofin is reinforced by the incorporation of a glass fibre mat and finished on the underside with a polypropylene mat. Roll size 14.82 x 1.35m

Usage

Ecofin single ply membranes are ideal for all flat roof applications both new build and refurbishment . Ecofin can be adhered in Ecofix PU adhesive and bonded at the laps using an automatic welder or a Leister or similar hot air gun with temperature display and pressure roller.

UNI8202	CHARACTERISTICS	UNIT	MEASURE	TOLERANCE
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UNI8202	CHARACTERISTICS	UNIT	MEASURE	TOLERANCE
P3	Length	m	14.82	± 1%
P4	Width	m	1.35	± 1%
P6	Thickness	mm	1.8	± 5%
P7	Area Mass	Kg/m2	1.8	± 10%
P8	Tensile strength:-max load (long + across)	daNmm2	800	± 20%
	-Ultimate elongation: (longitudinal & transverse	%	650	± 15
P9/B	Tear strength: Max. load longitudinal & transverse	daN	42	≥ decl. value
P10	Residual deformation due to tensile stress	%	35	≥ decl. value
P11	Static punching strength on fibre cement	PS	5	≥ decl. value
P12	Dynamic punching strength on fibre cement	PD	3	≥ decl. value
P13	Assessment of fatigue strength on a slot			
P15	Cold flexibility	°C	-60	≤ decl. value
P16	Creep: at 90°C & INCLINED AT 90°	mm	0.1	≤ decl. value
P17	Dimensional stability after heat aging	%	-0.3	≤ decl. value
P17	Dimensional stability following the application of heat across	%	-0.2	≤ decl. value
P18	High temperature shape stability	°C	130	≥ decl. value
P20	Coefficient of thermal expansion between +20 & -20°C	cm/cm°C	45X10-6	≤ decl. value
P21	Waterproofing	Kpa	100	≥ decl. value
P22	Behaviour to water: absorption	%	1	≤ decl. value
P23	Water moisture transmission			
	μ = resistance factor against water vapour diffusion	μ	30,000	≥ decl. value
P24	Assessment of resistance to roots piercing action		COMPLIANT	compliance
P25	Fireproofing assessment		B2	
P26	Thermal aging in air	°C	-50	≤ decl. value
P27	Thermal aging assessment in water			
P28	Ozone resistance assessment			
P29	U.V. radiation resistance assessment			
P30	Joints tensile strength vs. 8202 p8	%	80	≥ decl. value
P31	Joints air proofing assessment	Kpa	10	≥ decl. value
P32	Joints fatigue strength assessment			
P33	Joints creep strength assessment			
P34	Joints thermal aging strength assessment			
SIA 280/8	Resistance to hail (rigid support)	m/s	20	≥ decl value
SIA 280/8	Resistance to hail (soft support)	m/s	25	≤ decl. value

PARAMETER TOLERANCES UNDER UEAtc DIRECTIVES

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3	01-Apr-02	mod. P11 P12		
2	25-Jun-01	mod. P8 P9 P17	Tech. Office	R.Pinzan
1	13-Mar-00	area mass and thermal ageing in air		
REV.	DATE	REASON	VERIFIED	APPROVED

PRODUCT
PRODUCT CODE
ECOFIN GS TNT 1.5mm
4GRF0215
Description

Ecofin polyolefin modified waterproofing membranes, otherwise known as a TPO (Thermoplastic Polyolefin) has all the physical properties which give the product stability (does not shrink), durability and flexibility.

Ecofin is compatible with bituminous membranes, asphalt, steel profile sheeting and asbestos sheeting and can be welded at temperatures of between 380-425°C achieving a quick and safe bond.

Ecofin is reinforced by the incorporation of a glass scrim carrier and finished on the underside with a polypropylene mat. Roll size 14.82 x 1.35m

Usage

Ecofin single ply membranes are ideal for all flat roof applications both new build and refurbishment . Ecofin GS TNT is mechanically fixed using Delta approved fastening system and bonded at the laps using an automatic welder or Leister or similar hot air gun with temperature display and pressure roller.

UNI8202	CHARACTERISTICS	UNIT	MEASURE	TOLERANCE
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UNI8202	CHARACTERISTICS	UNIT	MEASURE	TOLERANCE
P3	Length	m	14.82	± 1%
P4	Width	m	1.35	± 1%
P6	Thickness	mm	1.5	± 5%
P7	Area Mass	Kg/m2	1.5	± 10%
P8	Tensile strength:-max load (long + across)	daNmm2	1175	± 20%
	-Ultimate elongation: (longitudinal & transverse	%	660	± 15
P9/B	Tear strength: Max. load longitudinal & transverse	daN	40	≥ decl. value
P10	Residual deformation due to tensile stress	%	35	≥ decl. value
P11	Static punching strength on fibre cement	PS	5	≥ decl. value
P12	Dynamic punching strength on fibre cement	PD	3	≥ decl. value
P13	Assessment of fatigue strength on a slot			
P15	Cold flexibility	°C	-60	≤ decl. value
P16	Creep: at 90°C & INCLINED AT 90°	mm	0.1	≤ decl. value
P17	Dimensional stability after heat aging	%	-0.3	≤ decl. value
P17	Dimensional stability following the application of heat across	%	-0.2	≤ decl. value
P18	High temperature shape stability	°C	130	≥ decl. value
P20	Coefficient of thermal expansion between +20 & -20°C	cm/cm°C	45X10-6	≤ decl. value
P21	Waterproofing	Kpa	100	≥ decl. value
P22	Behaviour to water: absorption	%	1	≤ decl. value
P23	Water moisture transmission			
	μ = resistance factor against water vapour diffusion	μ	30,000	≥ decl. value
P24	Assessment of resistance to roots piercing action		COMPLIANT	compliance
P25	Fireproofing assessment		B2	
P26	Thermal aging in air	°C	-50	≤ decl. value
P27	Thermal aging assessment in water			
P28	Ozone resistance assessment			
P29	U.V. radiation resistance assessment			
P30	Joints tensile strength vs. 8202 p8	%	80	≥ decl. value
P31	Joints air proofing assessment	Kpa	10	≥ decl. value
P32	Joints fatigue strength assessment			
P33	Joints creep strength assessment			
P34	Joints thermal aging strength assessment			
SIA 280/8	Resistance to hail (rigid support)	m/s	20	≥ decl value
SIA 280/8	Resistance to hail (soft support)	m/s	25	≤ decl. value

PARAMETER TOLERANCES UNDER UEAtc DIRECTIVES

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3	01-Apr-02	mod. P11 P12		
2	25-Jun-01	mod. P8 P9 P17	Tech. Office	R.Pinzan
1	13-Mar-00	area mass and thermal ageing in air		
REV.	DATE	REASON	VERIFIED	APPROVED

PRODUCT
PRODUCT CODE
ECOFIN GS 1.5mm
4GRF0015
Description

Ecofin polyolefin modified waterproofing membranes, otherwise known as a TPO (Thermoplastic Polyolefin) has all the physical properties which give the product stability (no shrinkage), durability and flexibility.

Ecofin is compatible with bituminous membranes, asphalt, steel profile sheeting and asbestos sheeting and can be welded at temperatures of between 380-425°C achieving a quick and safe bond.

Ecofin is reinforced by the incorporation of a glass scrim carrier. Roll size 14.82 x 1.35m

Usage

Ecofin single ply membranes are ideal for all flat roof applications both new build and refurbishment . Ecofin Gs is primarily used for detailing particularly when lap bonding is carried out using a Sievert or similar automatic welder. This membrane can be cut into strips of 120mm wide to form straps to seal end laps/joints of the membrane or metal details.

UNI8202	CHARACTERISTICS	UNIT	MEASURE	TOLERANCE
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P3	Length	m	14.82	± 1%
P4	Width	m	1.35	± 1%
P6	Thickness	mm	1.5	± 5%
P7	Area Mass	Kg/m2	1.5	± 10%
P8	Tensile strength:-max load (long + across)	daNmm2	1175	± 20%
	-Ultimate elongation: (longitudinal & transverse	%	650	± 15
P9/B	Tear strength: Max. load longitudinal & transverse	daN	40	≥ decl. value
P10	Residual deformation due to tensile stress	%	35	≥ decl. value
P11	Static punching strength on fibre cement	PS	5	≥ decl. value
P12	Dynamic punching strength on fibre cement	PD	3	≥ decl. value
P13	Assessment of fatigue strength on a slot			
P15	Cold flexibility	°C	-60	≤ decl. value
P16	Creep: at 90°C & INCLINED AT 90°	mm	0.1	≤ decl. value
P17	Dimensional stability after heat aging	%	-0.3	≤ decl. value
P17	Dimensional stability following the application of heat across	%	-0.2	≤ decl. value
P18	High temperature shape stability	°C	130	≥ decl. value
P20	Coefficient of thermal expansion between +20 & -20°C	cm/cm°C	45X10-6	≤ decl. value
P21	Waterproofing	Kpa	100	≥ decl. value
P22	Behaviour to water: absorption	%	1	≤ decl. value
P23	Water moisture transmission			
	μ = resistance factor against water vapour diffusion	μ	30,000	≥ decl. value
P24	Assessment of resistance to roots piercing action		COMPLIANT	compliance
P25	Fireproofing assessment		B2	
P26	Thermal aging in air	°C	-50	≤ decl. value
P27	Thermal aging assessment in water			
P28	Ozone resistance assessment			
P29	U.V. radiation resistance assessment			
P30	Joints tensile strength vs. 8202 p8	%	80	≥ decl. value
P31	Joints air proofing assessment	Kpa	10	≥ decl. value
P32	Joints fatigue strength assessment			
P33	Joints creep strength assessment			
P34	Joints thermal aging strength assessment			
SIA 280/8	Resistance to hail (rigid support)	m/s	20	≥ decl value
SIA 280/8	Resistance to hail (soft support)	m/s	25	≤ decl. value

PARAMETER TOLERANCES UNDER UEAtc DIRECTIVES

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3	01-Apr-02	mod. P11 P12		
2	25-Jun-01	mod. P8 P9 P17	Tech. Office	R.Pinzan
1	13-Mar-00	area mass and thermal ageing in air		
REV.	DATE	REASON	VERIFIED	APPROVED



DATA SHEET

MOD.10.02.7

REV. 0

PRODUCT

ECOFIN 1.2mm

PRODUCT CODE

4GRNF012

Description

Ecofin polyolefin modified waterproofing membranes, otherwise known as a TPO (Thermoplastic Polyolefin) has all the physical properties which give the product stability (does not shrink) durability and flexibility.

Ecofin is compatible with bituminous membranes, asphalt, steel profile sheeting and asbestos sheeting and can be welded at temperatures of between 380-425°C achieving a quick and safe bond.

Ecofin 1.2mm is a carrier less membrane Roll size 40m x 1.5m

Usage

Ecofin 1.2mm is carrier less to aid in the application of tricky details ie pipe collars etc. The membrane is adhered using Ecogrip Contact adhesive and bonded at the laps using a Leister or similar hot air gun with temperature display and pressure roller.

UNI8202 CHARACTERISTICS UNIT MEASURE TOLERANCE

UNI8202	CHARACTERISTICS	UNIT	MEASURE	TOLERANCE
P3	Length	m	40	± 1%
P4	Width	m	1.5	± 1%
P6	Thickness	mm	1.2	± 5%
P7	Area Mass	Kg/m2	1.2	± 10%
P8	Tensile strength:-max load (long + across)	daNmm2	90	± 20%
	-Ultimate elongation: (longitudinal & transverse	%	900	± 15
P9/B	Tear strength: Max. load longitudinal & transverse	daN	28	≥ decl. value
P10	Residual deformation due to tensile stress	%	35	≥ decl. value
P11	Static punching strength on fibre cement	PS	5	≥ decl. value
P12	Dynamic punching strength on fibre cement	PD	2	≥ decl. value
P13	Assessment of fatigue strength on a slot			
P15	Cold flexibility	°C	-60	≤ decl. value
P16	Creep: at 90°C & INCLINED AT 90°	mm	0.1	≤ decl. value
P17	Dimensional stability after heat aging	%	-2.0	≤ decl. value
P17	Dimensional stability following the application of heat across	%	-1.0	≤ decl. value
P18	High temperature shape stability	°C	130	≥ decl. value
P20	Coefficient of thermal expansion between +20 & -20°C	cm/cm°C		≤ decl. value
P21	Waterproofing	Kpa	100	≥ decl. value
P22	Behaviour to water: absorption	%	1	≤ decl. value
P23	Water moisture transmission			
	μ = resistance factor against water vapour diffusion	μ	30,000	≥ decl. value
P24	Assessment of resistance to roots piercing action		COMPLIANT	compliance
P25	Fireproofing assessment			
P26	Thermal aging in air	°C	-50	≤ decl. value
P27	Thermal aging assessment in water			
P28	Ozone resistance assessment			
P29	U.V. radiation resistance assessment			
P30	Joints tensile strength vs. 8202 p8	%	80	≥ decl. value
P31	Joints air proofing assessment	Kpa	10	≥ decl. value
P32	Joints fatigue strength assessment			
P33	Joints creep strength assessment			
P34	Joints thermal aging strength assessment			
SIA 280/8	Resistance to hail (rigid support)	m/s		≥ decl value
SIA 280/8	Resistance to hail (soft support)	m/s		≤ decl. value

PARAMETER TOLERANCES UNDER UEAtc DIRECTIVES

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3	01-Apr-02	mod. P11 P12		
2	25-Jun-01	mod. P8 P9 P17	Tech. Office	R.Pinzan
1	13-Mar-00	area mass and thermal ageing in air		
REV.	DATE	REASON	VERIFIED	APPROVED