



kerakoll

DECLARATION OF PERFORMANCE No 0282

1. Unique identification code of the product-type: **KLIMAEXPERT ETA System**

Products system components: Klima Flex, Keraklima Eco, Keraklima Eco Granello, Klima Air (variante EPS WHITE TR100), Klima Airplus/Klima Air Black (variante EPS BLACK TR100), Klima Airtech (variante EPS WHITE TR150), Klima EPS ETICS (variante EPS WHITE/BLACK TR100-150), Rinforzo V50, Kerakover Acrilex Fondo, Kerakover Kompact New, Kerakover Acrilex Finish

2. Intended use/es: **External thermic insulation of walls and buildings**

3. Manufacturer: **Kerakoll S.p.A Via dell'Artigianato, 9 - 41049 Sassuolo (MO) Italia**

4. System/s of AVCP: **System 2+**

5. European Assessment Document: **EAD 040083-00-0404, January 2019**

European Technical Assessment:: **ETA-15/0355 of 22/03/2024**

Technical Assessment Body: **TZUS (TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA s.p.)**

Notified body/ies: **TZUS n° 1020**

6. Declared performance/s:

- Safety in case of fire (BWR 2)

Essential characteristics	Performance
Reaction to fire	
- Reaction to fire of ETICS	Euroclasse B – s1, d0
- Reaction to fire of thermal insulation material	Euroclass E
- Reaction to fire of PU foam adhesive	NA
Facade fire performance	NPA
Propensity to undergo continuous smouldering of ETICS	NPA

- Hygiene, health and the environment (BWR 3)

Essential characteristics	Performance
Content, emission and/or release of dangerous substances – leachable substances	NPA
Water absorption	
- of the base coat and the rendering system (after 24 h)	
<i>Klima Flex</i>	0.281 Kg/m ² 0.30 Kg/m ² 0.33 Kg/m ²
<i>Keraklima Eco</i>	0.170 Kg/m ² 0.27 Kg/m ² 0.40 Kg/m ²
<i>Keraklima Eco granello</i>	0.117 Kg/m ² 0.22 Kg/m ² 0.38 Kg/m ²
- of the thermal insulation product	W _{ip} ≤ 0.5 kg/m ²
Hygrothermal behaviour	satisfied
Freeze thaw performance	satisfied
Impact resistance on the rig	category II
Impact resistance not on the rig	category II

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo (MO)
Italia

Società con unico socio
Fin Firel Spa.
Soggetta a direzione
e coordinamento
di Fin Firel Spa.

+39 0536816511
+39 0536816581
info@kerakoll.com
www.kerakoll.com

Rea MO n. 231812
R.I./C.F./P.I. 01174510360
Cap. soc. € 2.000.000,00 i.v.



kerakoll

Essential characteristics	Performance
Water vapour permeability	
- of the rendering system	
<i>Klima Flex</i>	S _D 0.64
<i>Keraklima Eco</i>	S _D 0.55
<i>Keraklima Eco granello</i>	S _D 0.53
- of the thermal insulation product	
<i>Klima Air</i>	20-30 μ
<i>Klima Air Black</i>	20-30 μ
<i>Klima Air Plus</i>	20-40 μ
<i>Klima Air Tech</i>	30-70 μ
<i>Klima EPS Etics</i>	20-70 μ

- Safety and accessibility in use (BWR 4)

Essential characteristics		Performance	
Bond strength (<i>Klima Flex</i>) (dry conditions)	Failure mode ¹ (%)	Mean value (kPa)	Min. value (kPa)
- between base coat and insulation product	100 Cs	100	100
- between adhesive and concrete	100 Ca	1180	1098
- between adhesive and insulation product	100 Cs	100	100
Bond strength (<i>Keraklima Eco</i>) (dry conditions)			
- between base coat and insulation product	100 Cs	159	151
- between adhesive and concrete	100 Ca	1192	1164
- between adhesive and insulation product	100 Cs	159	151
Bond strength (<i>Keraklima Eco Granello</i>) (dry conditions)			
- between base coat and insulation product	100 Cs	140	140
- between adhesive and concrete	100 Ca	1530	1480
- between adhesive and insulation product	100 Cs	140	140
Tensile strenght_EPS (dry conditions)			
<i>Klima Air</i>		100 kPa	
<i>Klima Air Black</i>		100 kPa	
<i>Klima Air Plus</i>		100 kPa	
<i>Klima Air Tech</i>		150 kPa	
<i>Klima ETA EPS</i>		100-150 kPa	
Shear strength (minimum value)			
<i>Klima Air</i>		59 kPa	
<i>Klima Air Black</i>		45 kPa	
<i>Klima Air Plus</i>		77 kPa	
<i>Klima Air Tech</i>		76 kPa	
<i>Klima ETA EPS</i>		45 kPa	

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo (MO)
Italia

Società con unico socio
Fin Firel Spa.
Soggetta a direzione
e coordinamento
di Fin Firel Spa.

+39 0536816511
+39 0536816581
info@kerakoll.com
www.kerakoll.com

Rea MO n. 231812
R.I./C.F./P.I. 01174510360
Cap. soc. € 2.000.000,00 i.v.



kerakoll

Essential characteristics	Performance	
Shear modulus of elasticity		
<i>Klima Air</i>	1,88 MPa	
<i>Klima Air Black</i>	1,00 MPa	
<i>Klima Air Plus</i>	2,51 MPa	
<i>Klima Air Tech</i>	2,26 MPa	
<i>Klima ETA EPS</i>	1,00 MPa	
Render strip tensile test	Rendering strain value at 0.8% Simplified method.	
<i>Keraklima Flex and Rinforzo V50</i>	W_{rk} in warp direction: 0.098 mm W_{rk} in weft direction: 0.122 mm	
<i>Keraklima Eco and Rinforzo V50</i>	W_{rk} in warp direction: 0.136 mm W_{rk} in weft direction: 0.109 mm	
<i>Keraklima Eco Granello and Rinforzo V50</i>	W_{rk} in warp direction: 0.107 mm W_{rk} in weft direction: 0.137 mm	
Bond strenght after ageing of finishing coat tested on the rig	Failure mode ¹ (%)	Mean value (kPa)
Klima Flex		
<i>Insulation TR 100 Base coat</i>	60/40 Cs/Ca	170
<i>Insulation TR 100 Base coat Key coat Kerakover Acrilex Fondo Finishing coat Kerakover Kompact New Medio</i>	80/20 Ca/Cs	100
Keraklima Eco		
<i>Insulation TR 100 Base coat</i>	100 Cs	90
<i>Insulation TR 100 Base coat Key coat Kerakover Acrilex Fondo Finishing coat Kerakover Kompact New Medio</i>	100 Cs	80
Keraklima Eco granello		
<i>Insulation TR 100 Base coat</i>	100 Cs	60
<i>Insulation TR 100 Base coat Key coat Kerakover Acrilex Fondo Finishing coat Kerakover Kompact New Medio</i>	100 Cs	100

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo (MO)
Italia

Società con unico socio
Fin Firel Spa.
Soggetta a direzione
e coordinamento
di Fin Firel Spa.

+39 0536816511
+39 0536816581
info@kerakoll.com
www.kerakoll.com

Rea MO n. 231812
R.I./C.F./P.I. 01174510360
Cap. soc. € 2.000.000,00 i.v.



kerakoll

Essential characteristics	Performance			
Bond strenght after ageing of finishing coat not tested on the rig	Failure mode ¹ (%)		Mean value (kPa)	
Klima Flex				
<i>Insulation TR 100</i> <i>Base coat</i> <i>Key coat Kerakover Acrilex Fondo</i> <i>Finishing coat Kerakover Kompact New Medio</i>	100Cs 100 Cs 100 Cs 100 Cs 95 Cs / 5 ca		122	
<i>Insulation TR 100</i> <i>Base coat</i> <i>Key coat Kerakover Acrilex Fondo</i> <i>Finishing coat Kerakover Acrilex Finish1.5</i>	70 Cs / 30 Ca 100 Cs 60 Cs / 40 Ca 100 Cs 70 Cs / 30 Ca		137	
Keraklima Eco				
<i>Insulation TR 100</i> <i>Base coat</i> <i>Key coat Kerakover Acrilex Fondo</i> <i>Finishing coat Kerakover Kompact New Medio</i>	60 Cs / 40 Ca 100 Cs 100 Cs 100 Cs 100 Cs		136	
<i>Insulation TR 100</i> <i>Base coat</i> <i>Key coat Kerakover Acrilex Fondo</i> <i>Finishing coat Kerakover Acrilex Finish1.5</i>	50 Cs / 50 Ca 100 Cs 70 Cs / 30 Ca 25 Cs / 75 Ca 100 Cs		123	
Keraklima Eco granello				
<i>Insulation TR 100</i> <i>Base coat</i> <i>Key coat Kerakover Acrilex Fondo</i> <i>Finishing coat Kerakover Kompact New Medio</i>	80 Cs / 20 Ca 100 Cs 80 Cs / 20 Ca 90 Cs / 10 Ca 100 Cs		141	
<i>Insulation TR 100</i> <i>Base coat</i> <i>Key coat Kerakover Acrilex Fondo</i> <i>Finishing coat Kerakover Acrilex Finish1.5</i>	60 Cs / 40 Ca 10 Cs / 90 Ca 75 Cs / 25 Ca 100 Cs 100 Cs		138	
Tensile strength of the glass fibre mesh	As delivered state (N/mm)		After Ageing (N/mm)	
	warp	weft	warp	weft
<i>Rinforzo V50</i>	43.90	45.90	28.14	28.16
<i>Rinforzo V50 type A</i>	42.48	48.40	29.84	33.56
<i>Rinforzo V50 type B</i>	44.28	55.54	36.48	46.08

- Protection against noise (BWR 5)

Essential characteristics	Performance
Airborne sound insulation of ETICS	NPA

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo (MO)
Italia

Società con unico socio
Fin Firel Spa.
Soggetta a direzione
e coordinamento
di Fin Firel Spa.

+39 0536816511
+39 0536816581
info@kerakoll.com
www.kerakoll.com

Rea MO n. 231812
R.I./C.F./P.I. 01174510360
Cap. soc. € 2.000.000,00 i.v.



kerakoll

- Energy economy and Heat retention (BWR 7)

Essential characteristics	Performance	
	Thickness min (mm)	Thermal resistance (m ² K/W)
<i>Klima Air</i>	40	1.10
<i>Klima Air Black</i>	40	1.25
<i>Klima Air Plus</i>	40	1.25
<i>Klima Air Tech</i>	60	1.70
<i>Klima ETA EPS</i>	40	1.1 – 1.29

¹ Cs: Cohesive failure in substrate; Ca: Cohesive failure into adhesive

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by: **Romano Sghedoni (legal representative)**

At Sassuolo, on 04/04/2024

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo (MO)
Italia

Società con unico socio
Fin Firel Spa.
Soggetta a direzione
e coordinamento
di Fin Firel Spa.

+39 0536816511
+39 0536816581
info@kerakoll.com
www.kerakoll.com

Rea MO n. 231812
R.I./C.F./P.I. 01174510360
Cap. soc. € 2.000.000,00 i.v.



kerakoll

CE 1020	Kerakoll S.p.A - Via dell'Artigianato, 9 41049 Sassuolo - MO- Italy www.kerakoll.com
15 KlimaExpert ETA KLIMA AIR KlimaExpert ETA KLIMA AIRPLUS/KLIMA AIR BLACK KlimaExpert ETA KLIMA AIRTECH KlimaExpert ETA EPS ETICS DoP n° 0282	
ETA-15/0355 EAD 040083-00-0404	

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo (MO)
Italia

Società con unico socio
Fin Firel Spa.
Soggetta a direzione
e coordinamento
di Fin Firel Spa.

+39 0536816511
+39 0536816581
info@kerakoll.com
www.kerakoll.com

Rea MO n. 231812
R.I./C.F./P.I. 01174510360
Cap. soc. € 2.000.000,00 i.v.