



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) Rinforzo V50, Kerakover Eco Acrilex Fondo, Kerakover Eco Kompact*

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 22/04/2022**

Technical Assessment Body: **ITC CNR**

Notified body/ies: **ITC n°0970**

6. Declared performance/s:

- Safety in case of fire (BWR 2)

Essential characteristics	Performance
Reaction to fire	
- Reaction to fire of ETICS	Euroclasse B - s2 d0
- Reaction to fire of thermal insulation material	Euroclasse E
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 0.190 Kg/m ²
<i>Keraklima Eco</i>	0.170 Kg/m ² 0.091 Kg/m ²
<i>Keraklima Eco granello</i>	0.117 Kg/m ² 0.108 Kg/m ²
- of the thermal insulation product	W _{ip} ≤ 0.5 kg/m ²
Hygrothermal behaviour	satisfied
Freeze thaw performance	satisfied
Impact resistance	category II
Water vapour permeability	
- of the rendering system	S _D 1.0



Essential characteristics	Performance
- 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

- 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	
Shear strenght (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	
Modulus of elasticity (minimum value)			
	<i>Klima Air</i>	1,880 MPa	
	<i>Klima Air Black</i>	1,000 MPa	
	<i>Klima Air Plus</i>	2,513 MPa	
	<i>Klima Air Tech</i>	2,260 MPa	



Essential characteristics	Performance	
Bond strenght after ageing of finishing coat tested on the rig	Failure mode ¹ (%)	Mean value (kPa)
Klima Flex		
<i>Insulation and base coat</i>	60/40 Cs/Ca	170
<i>Insulation/Base Coat/Key Coat/Finishing</i>	80 Cs	100
Keraklima Eco		
<i>Insulation and base coat</i>	100 Cs	90
<i>Insulation/Base Coat/Key Coat/Finishing</i>	100 Cs	80
Keraklima Eco granello		
<i>Insulation and base coat</i>	100 Cs	60
<i>Insulation/Base Coat/Key Coat/Finishing</i>	100 Cs	100

- Protection against noise (BWR 5)

Essential characteristics	Performance
Airborne sound insulation of ETICS	NPA

- 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

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 20/05/2022



CE 0970	Kerakoll S.p.A - Via dell'Artigianato, 9 41049 Sassuolo - MO- Italy www.kerakoll.com
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