

DECLARATION OF PERFORMANCE

No ED 323-02-01

Unique identification code of the product type: **FormulaForte**

Product identification:

FormulaForte products and systems to protect the surfaces of concrete structures

- **Formula Forte INTEGRAL 1605**

Curing, hardening and protective mixture for concrete structures

- **Formula Forte HARD 1610**

Curing, hardening and protective mixture for concrete structures

- **Formula Forte SUPERHARD 1620**

Curing, hardening and protective mixture for concrete structures

- **Formula Forte SHINE 1630**

Curing, hardening and protective mixture for concrete structures

Intended use:

Protects the surface of concrete structures in accordance with EN 1504-2:2004, impregnation for protection against ingress (according to paragraph 1.2, tab. 1, EN 1504-9:2008), applies physical resistance (according to 5.2, tab. 1, EN 1504-9:2008).

- **Formula Forte INTEGRAL 1605**

Primary and final curing coat for concrete floors

- **Formula Forte HARD 1610**

Primary and final curing coat for concrete floors

- **Formula Forte SUPERHARD 1620**

Primary curing coat for concrete floors

- **Formula Forte SHINE 1630**

Final aesthetic and curing coat for concrete floors

Harmonized standard:

EN 1504-2:2004 and EN 1504-9:2008

Manufacturer:

FORTEMIX s.r.o., Kirilovova 812, 739 21 Paskov, Czech Republic, ID 268 68 211

Method of assessment and verification of the consistency of product performance: **system 4**

Declared performance of the product:

Characteristics	Performance level				Reference
	1605 INTEGRAL	1610 HARD	1620 SUPERHARD	1630 SHINE	
Resistance in BCA abrasion Increased resistance to abrasion compared to unimpregnated sample	≥ 30%	≥ 30%	≥ 30%	≥ 30%	Article 5.2 EN 1504- 2:2004
Resistance in Taber abrasion Increased resistance to abrasion compared to unimpregnated sample	NPD	NPD	NPD	NPD	Article 5.2 EN 1504- 2:2004
Water vapor permeability	NPD	NPD	NPD	NPD	Article 5.2 EN 1504- 2:2004

Rate of water penetration in the liquid phase	$w < 0.1 \text{ kg/m}^2\text{h}^{-0.5}$	$w < 0.1 \text{ kg/m}^2\text{h}^{-0.5}$	$w < 0.1 \text{ kg/m}^2\text{h}^{-0.5}$	$w < 0.1 \text{ kg/m}^2\text{h}^{-0.5}$	Article 5.2 EN 1504-2:2004
Thermal compatibility	NPD	NPD	NPD	NPD	Article 5.2 EN 1504-2:2004
Chemical resistance	NPD	NPD	NPD	NPD	Article 5.2 EN 1504-2:2004
Impact resistance	III: $\geq 20 \text{ Nm}$	III: $\geq 20 \text{ Nm}$	III: $\geq 20 \text{ Nm}$	III: $\geq 20 \text{ Nm}$	Article 5.2 EN 1504-2:2004
Pull-off test for cohesion	NPD	NPD	NPD	NPD	Article 5.2 EN 1504-2:2004
Pull-off test for cohesion compared to unimpregnated sample	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.0 \text{ N/mm}^2$	$\geq 1.0 \text{ N/mm}^2$	Article 5.2 EN 1504-2:2004
Reaction to fire	class A1 _{fl}	class A1 _{fl}	class A1 _{fl}	class A1 _{fl}	Article 5.2 EN 1504-2:2004
Anti-shear properties	NPD	NPD	NPD	NPD	Article 5.2 EN 1504-2:2004
Depth of penetration	$\geq 5 \text{ mm}$	$\geq 5 \text{ mm}$	$\geq 5 \text{ mm}$	$\geq 5 \text{ mm}$	Article 5.2 EN 1504-2:2004
Dangerous substances	See safety data sheet	See safety data sheet	See safety data sheet	See safety data sheet	Article 5.3 EN 1504-2:2004

The characteristics of the above product are in conformity with the declared performance. This declaration of performance shall be issued in accordance with Regulation (EU) No. 305/2011 under the sole responsibility of the manufacturer referred to above. Signed on behalf of the manufacturer and on its behalf.

Paskov, 9. 9. 2021

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Adam Milata
Executive

Annex to CE conformity marking (FormulaForte)



Fortemix, s.r.o.
Kirilovova 812, 739 21 Paskov, Czech Republic
ID: 268 68 211

13

EN 1504-2

FormulaForte products and systems to protect the surfaces of concrete structures

Performance declaration number: ED 323-02-01

Unique identification code of the product type: FormulaForte

Product variant	1605 INTEGRAL	1610 HARD	1620 SUPERHARD	1630 SHINE
Resistance in BCA abrasion Increased resistance to abrasion compared to unimpregnated sample	≥ 30%	≥ 30%	≥ 30%	≥ 30%
Water vapor permeability	NPD	NPD	NPD	NPD
Rate of water penetration in the liquid phase	$w < 0.1$ $\text{kg/m}^2\text{h}^{-0.5}$	$w < 0.1$ $\text{kg/m}^2\text{h}^{-0.5}$	$w < 0.1$ $\text{kg/m}^2\text{h}^{-0.5}$	$w < 0.1$ $\text{kg/m}^2\text{h}^{-0.5}$
Thermal compatibility	NPD	NPD	NPD	NPD
Chemical resistance	NPD	NPD	NPD	NPD
Impact resistance	III: ≥ 20 Nm	III: ≥ 20 Nm	III: ≥ 20 Nm	III: ≥ 20 Nm
Pull-off test for cohesion compared to unimpregnated sample	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²	≥ 1.0 N/mm ²
Reaction to fire	class A1 _{fi}	class A1 _{fi}	class A1 _{fi}	class A1 _{fi}
Anti-shear properties	NPD	NPD	NPD	NPD
Depth of penetration	≥ 5 mm	≥ 5 mm	≥ 5 mm	≥ 5 mm
Dangerous substances	See safety data sheet	See safety data sheet	See safety data sheet	See safety data sheet