Declaration of Performance for the construction product

StoPox 590 EP

Unique identification code of the product-type	PROD0192 StoPox 590 EP
Intended use/es	EN 1504-2: Protection against ingress (1.3) Physical resistance (5.1) Resistance to chemicals (6.1) EN 13813: Synthetic resin screed material
Manufacturer	Sto SE & Co. KGaA, Ehrenbachstr. 1, D-79780 Stühlingen
System/s of AVCP	EN 1504-2: System 2+ (for uses in buildings and civil engineering works) System 3 (for uses subject to reaction to fire regulations) EN 13813: System 4 (for uses in interiors) System 3 (for uses in interiors subject to reaction to fire regulations)
Harmonised standard	EN 1504-2:2004 EN 13813:2002
Notified body/ies	NB 0767 (system 3) NB 0921 (system 2+)
European Assessment Document	Not relevant
European Technical Assessment	Not relevant
Technical Assessment Body	Not relevant
Appropriate Technical Documentation and/or Specific Technical Documentation	Not relevant
Declared performance/s	The product is used in the surface protection system: StoCretec OS 8.15 consisting of the components: StoPox GH 502 StoPox 590 EP StoPox DV 100

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B_{fl} - s1	system 3 / EN 13813:2002
Reaction to fire	B_{fl} - s1 as component of StoCretec OS 8.15	system 3 / EN 1504-2:2004
Water vapour permeability	Class II as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Bond strength	≥ B 1.5	system 4 / EN 13813:2002
Sound absorption coefficient α_w	NPD	system 4 / EN 13813:2002
Water permeability	NPD	system 4 / EN 13813:2002

Abrasion resistance	≤ AR1..	system 4 / EN 13813:2002
Adhesion strength by pull-off test	≥ 2.0 (1.5) N/mm² as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Abrasion resistance	Mass loss < 3000 mg as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Antistatic behaviour	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Chemical resistance	NPD	system 4 / EN 13813:2002
Release of corrosive substances	SR	system 4 / EN 13813:2002
Cross cut test	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Slip resistance	Class III as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Artificial weathering	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Linear shrinkage	≤ 0.3 % as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Impact sound insulation	NPD	system 4 / EN 13813:2002
Thermal resistance	NPD	system 4 / EN 13813:2002
Resistance to temperature shock	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Capillary water absorption and water permeability	$w < 0,1 \text{ kg} / (m^2 \cdot h^{0,5})$ as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Impact resistance	Class I as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Impact resistance	≥IR4	system 4 / EN 13813:2002
Coefficient of thermal expansion	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Chemical resistance	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Resistance to severe chemical attack	decrease in hardness < 50% as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Dangerous substances	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Adhesion on wet concrete	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Thermal compatibility	≥ 2.0 (1.5) N/mm² as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Compressive strength	Class I as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Carbon dioxide permeability	sd > 50 m as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004
Crack bridging ability	NPD as component of StoCretec OS 8.15	system 2+/ EN 1504-2:2004

NPD = no performance determined

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:

Ppa Francisco Ramos / Head of Business Fields Facade and Interiors

This copy was created by machine and is valid without signature.

12.12.2022

Sto SE & Co. KGaA D-79780 Stühlingen

The current valid version of the declaration of performance is available at www.sto.com/ce.

CE

Sto SE & Co. KGaA

Ehrenbachstraße 1

D-79780 Stühlingen

0103-6035-3 **09** **NB 0767 (system 3)**
NB 0921 (system 2+)

PROD0192 StoPox 590 EP
EN 1504-2:2004
EN 13813:2002

EN 1504-2:
Protection against ingress (1.3)
Physical resistance (5.1)
Resistance to chemicals (6.1)

EN 13813:
Synthetic resin screed material

Reaction to fire	B_{fl} - s1
Reaction to fire	B_{fl} - s1 as component of StoCretec OS 8.15
Bond strength	≥ B 1.5
Water vapour permeability	Class II as component of StoCretec OS 8.15
Sound absorption coefficient α_w	NPD
Water permeability	NPD
Abrasion resistance	≤ AR1
Adhesion strength by pull-off test	≥ 2.0 (1.5) N/mm² as component of StoCretec OS 8.15
Abrasion resistance	Mass loss < 3000 mg as component of StoCretec OS 8.15
Antistatic behaviour	NPD as component of StoCretec OS 8.15
Chemical resistance	NPD
Release of corrosive substances	SR
Cross cut test	NPD as component of StoCretec OS 8.15
Slip resistance	Class III as component of StoCretec OS 8.15

Artificial weathering	NPD as component of StoCretec OS 8.15
Linear shrinkage	≤ 0.3 % as component of StoCretec OS 8.15
Impact sound insulation	NPD
Thermal resistance	NPD
Resistance to temperature shock	NPD as component of StoCretec OS 8.15
Capillary water absorption and water permeability	$w < 0,1\ kg / (m^2 \cdot h^{0,5})$ as component of StoCretec OS 8.15
Impact resistance	Class I as component of StoCretec OS 8.15
Impact resistance	≥IR4
Coefficient of thermal expansion	NPD as component of StoCretec OS 8.15
Chemical resistance	NPD as component of StoCretec OS 8.15
Resistance to severe chemical attack	decrease in hardness < 50% as component of StoCretec OS 8.15
Dangerous substances	NPD as component of StoCretec OS 8.15
Adhesion on wet concrete	NPD as component of StoCretec OS 8.15
Thermal compatibility	≥ 2.0 (1.5) N/mm^2 as component of StoCretec OS 8.15
Compressive strength	Class I as component of StoCretec OS 8.15
Carbon dioxide permeability	sd > 50 m as component of StoCretec OS 8.15
Crack bridging ability	NPD as component of StoCretec OS 8.15