TECHNICAL DATA SHEET

SINTESY LINE: STAR.KW

PHYSICAL AND CHEMICAL CHARACTERISTICS	STANDARD REFERENCE	STAR.KW 0,15 (1) 914,4x457,2 mm VALUE / CLASSIFICATION	STAR.KW 0,30 1210x457,2 mm VALUE / CLASSIFICATION
Product type		heterogeneous resilient coverings made of polyvinyl chloride (PVC) and mineral filler.	
Element dimension		914,4 (± 1,0) x 457,2 (± 0,15) mm	1210 (± 1,0) x 457,2 (± 0,15) mm
Thickness of wear layer	EN ISO 10582 :2018 Table 3/Type 1 EN ISO 24340:2012	0,15 (± 0,05) mm + treatment with polyurethane	0,15 (± 0,05) mm + treatment with polyurethane
Total thickness	EN ISO 24346:2012	4 (± 0,15) mm	
Intended Use		a) INTERNAL USE FOR COVERINGS WALLS. b) ALSO IT CAN BE USED AS A FLOORING FOR INTERIORS IN TEMPORARY OR DEMONSTRATION SITUATIONS.	a) INTERNAL USE FOR COVERINGS WALLS. b) ALSO IT CAN BE USED AS A FLOORING FOR INTERIORS (see classification)
Layers		1) UV coating + Treatment PU scratch resistance 2) Wear Resistant Layers – PVC - **thickness 0,15** mm 3) Decorative Layers - PVC 4) SPC (solid polymer core) (only virgin PVC used)	1) UV coating + Treatment PU scratch resistance 2) Wear Resistant Layers – PVC - **thickness 0,30** mm 3) Decorative Layers - PVC 4) SPC (solid polymer core) (only virgin PVC used)
Bevel		NO	PRESENT ON THE 4 SIDES
Weight per sqm	EN ISO 23997:2012	7,60 Kg./m² (+ 13% - 10%)	

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Wall Installation https://www.skema.eu/en/download		glued installation by following the indications specified in the laying intructions and warnings contained in the packages and / or available in the download area.	
Joint		**VLS**	
Max gap allowed between ceramic tiles (Wall Installation)		<-> 8 mm	
Colour fastness to artificial light	EN ISO 105 B02	≥ 6	
Surface finishing (Matt)		7 ± 2 gloss	
Resistance to staining	EN 438-2	Grade 5 No visible change	
Reaction to fire of the product applied to the wall by gluing	EN 13501-01:2007+A1:2009 UNI EN 13823:2014 UNI EN ISO 11925-2:2010	B s2 d0 (2)	
Emission of volatile organic compounds (VOC) after 28 days Classification	UNI EN ISO 16000-9:2006 UNI EN ISO 16000-6 French decree No. 321/2011		
Emission of volatile organic compounds (VOC) after 28 days TVOC	UNI EN ISO 16000-9:2006 French decree No. 321/2011 **CLASS A+ LIMIT: < 1000 µg/m³**	< 100 µg/m³	
Phthalate content	EN 14372 (DBP+BBP+DEHP) (DINP+DNOP+DIDP)	< 1 mg/kg	
Toxicity	ASTM F963-11 (Pb, Sb,As,Ba,Cd,Cr,Hg,Se)	Compliant < 5 ppm for each chemicall	
Evaluation of the action of microorganisms - Fungi.	EN ISO 846:1197 – METHOD A	Grade 0 No visible growth	
Curling after exposure to heat	EN ISO 23999:2012	Residual curling after exposure to heat: ≤ 1 mm	
Thickness swelling	ISO 24336:2005	≤ 0,08%	

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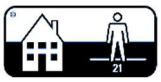
SPECIFIC DATA OF ITS USING AS FLOORING			
Classification	EN ISO 10582:2018 – EN ISO 10874:2012	 **Classe 21 (Moderate Domestic)** ONLY FOR INTERIORS IN TEMPORARY OR DEMONSTRATION STANDS.	 **Classe 23 (Heavy Domestic)**  **Classe 31 (Moderate Commercial)**
Dimensional tolerances (once delivered)	EN ISO 10582:2018	In accordance with tolerance table 2	
Dimensional Stability due to variation of temperature	EN ISO 23999:2012	Dimensional variations in % after exposure to heat: ≤ 0,15 %	
Curling after exposure to heat	EN ISO 23999:2012	Residual curling after exposure to heat: ≤ 1 mm	Residual curling after exposure to heat: ≤ 2 mm
Thickness swelling	ISO 24336:2005	≤ 0,08%	
Floor Installation https://www.skema.eu/en/download		By glued or floating installation. For floating installation please refer to the instructions and warnings in the manual of the Sintesy Conne.X	
Max gap allowed between ceramic tiles Floor Installation		<-> 8 mm	
Locking strenght	EN ISO 10582:2018 ANNEX D – TABLE 3 ISO 24334:2019	Longitudinal ≥ 1.5 kN/m Transverse ≥ 1,5 kN/m	

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Residual indentation	EN ISO 10582:2018 – Table 2 EN ISO 24343-1:2012	≤ 0,1 mm (average value)	
Reference Declaration of Performance (DOP) Download: http://www.skema.eu/dop		**SINTESY STAR.KW:** DOP: RA-010	
Reaction to fire of the product applied to the flooring	EN 14041:2004/AC:2006 – EN 13501-01:2007+A1:2009 UNI EN ISO 9239-1:2010 UNI EN ISO 11925-2:2010	Bfl -s1 (3)	
Slip resistance	EN 14041:2004/AC:2006 – EN 13893:2002	CLASS DS	
Slip resistance (inclined Plane)	DIN 51130:2004	Finish Stone = R9	
Electrical behaviour (propensity to accumulation of static electricity)	EN 14041:2004/AC:2006 – EN 1815:2016	NPD (Not performance determined)	
Thermal conductivity	EN 14041:2004/AC:2006 – EN 12667:2001	λ mean = 0,155 W/(m.K) (*4)	
Thermal resistance	EN 12667:2001 – ISO 8302:1991	R mean = 0,03 m^2·K/W (*4)	
Suitable for underfloor heating		YES (*5) T ≤ 28°C	

NOTES AND WARNINGS:

(*1) Available until stocks last.
(*2) glued on non-combustible building elements by following the indications specified in the technical and / or sale documentation and / or in the instructions contained in the packages.
(*3) Laying on non-combustible building elements by the interposition of mattresses provided by Skema Srl following the indications specified in the technical and / or sale documentation and / or in the instructions contained in the packages.
(*4) The value of conductivity and thermal resistance indicated is referred only to the product.
(*5) For the installation of the product with floor heating, follow the instructions given in specific documentation and / or contained in the packages.

Note: Specifications are subject to change without notice.

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