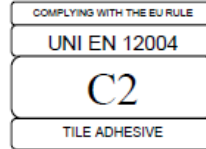


# PRODUCT DATA SHEET

## ROYAL

ITEM CODE: SEE DN  
ISSUE DATE: 5/05/2021  
REVIEW: NO. 4



### DESCRIPTION OF THE PRODUCT

Cementitious tile adhesive designed for the installation of porcelain stoneware (grès), klinker, and ceramic tiles on floors and walls, both indoors and outdoors.

Classified according to **UNI EN 12004 (C2)**: cementitious adhesive with improved adhesion. Developed by WINKLER Research & Development Laboratories.

### FIELDS OF USE

Suitable for the installation of ceramic or porcelain tiles on floors and wall coverings, both indoors and outdoors.

### SURFACE PREPARATION

Ensure that the substrate is sound, properly cured, free from cracks, and compliant with the requirements specified in the **UNI EN 11493-1** standard.

Thoroughly clean the surface to remove salts, oils, grease, loose or friable material, and any foreign or non-adherent substances.

### WARNING

Do not add cement or any additives.

Do not use the product if the packaging is damaged.

Do not add water once the mix has begun to set.

### PRECAUTIONS

For existing coatings or surfaces with low wettability, use **WINGRIP NEXT** as an adhesion promoter. For the design, installation, and maintenance of floors using **ROYAL** refer to the provisions of **UNI EN 11493-1**. Apply at temperatures between +5°C and +35°C.

## APPLICATION

Mix thoroughly with clean water (5-5.25 L per bag) until a smooth, homogenous mixture is obtained. Apply the product with a notched trowel. To improve the product's elasticity, add 10-15% **ADEGUM LATEX** to the mixing water, adjusting the amount until the desired consistency is achieved.

For large-sized coverings (with a surface area greater than 900cm<sup>2</sup>), or when a full-bed application is required according to **UNI EN 11493-1**, apply **ROYAL** using the double-spreading technique – applying adhesive both to the substrate and the back of the covering. This ensures full contact and greater mechanical strength.

## CONSUMPTION

3-3.5 kg/m<sup>2</sup>

## PACKAGING

25 kg bags

## STORAGE

The product in its original and undamaged packaging, can be stored for up to 12 months. Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.

## SAFETY INSTRUCTIONS

### PRECAUTIONS

For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

## DISPOSAL AND ENVIRONMENTAL PRECAUTIONS

Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

## TECHNICAL FEATURES (average value)

FEATURES	RESULTS
Appearance	Powder
Colour	White – Grey
Specific weight:	1.4 ± 0.05 g/cm <sup>3</sup>
Recommended Mixing Water	5-5.25 L per bag 20-21%

## CERTIFIED RESISTANCES OF THE PRODUCT IN OPERATION According to UNI EN 12004

Extended open time: Tensile adhesive strength (UNI EN 1346)	After 5 min	After 10 min	After 20 min
	1.09 N/mm <sup>2</sup>	0.63 N/mm <sup>2</sup>	0.51 N/mm <sup>2</sup>
High tensile adhesive strength (UNI EN 1348)			
• Initial	1.40 N/ mm <sup>2</sup>		
• After thermal aging	1.03 N/mm <sup>2</sup>		
• After water immersion	1.04 N/ mm <sup>2</sup>		
• After freeze-thaw cycles	1.07 N/ mm <sup>2</sup>		

## VOLATILE ORGANIC COMPOUNDS EMISSION

PARAMETER	MAX. ALLOWED CONCENTRATION ( $\mu\text{g}/\text{m}^3$ )
TVOC after 3 days	$\leq 750$
TVOC after 28 days	$\leq 60$

Test performed by the EUROFINS Institute according to EN 16516, ISO 16000-3/6/9/11 and ASTM D5116-10. Test report n. 392-2017-00404102\_G\_EN\_02.

The product complies with the requirements of Directive 2003/53/EC.

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