

## TECHNICAL SHEET 13.01.18-GBR

### CONSTRUCTION ADHESIVES



# AKRINOL Uniflex White

Improved White Cementitious Interply Adhesive

## 1. Description, Application

AKRINOL Uniflex White is a white interply adhesive based on cement, sand, and additives, for fixing in a coat of up to 10 mm of thickness on external and internal substrates. It is intended for installing standard ceramics, heavier wall and floor ceramics, marble, stone, white stone and transparent linings on problematic substrates such as floor heating, gypsum boards, fixing in swimming pools, on terraces and balconies.

## 2. Packaging

Paper bags containing 25 kg

## 3. Technical Data

Appearance	White powdery compound
Dry weight (bulk weight)	~ 1200 kg/m <sup>3</sup>
Open time of fresh adhesive	~ 1 hour
Correction time	~ 15 min
Foot traffic and grouting	After 24 hours (up to 5 mm thick application)
Full load	After 14 days (up to 5 mm thick application)
Tensile adhesion strength 20 minutes after application EN 1346 (MPa)	>0.8
Slip of the laid tile EN 1308 (mm)	<0.5
Initial tensile adhesion strength EN 1348 (MPa)	>1.5
Tensile adhesion strength after water immersion EN 1348 (MPa)	>1.0
Tensile adhesion strength after treatment at +70°C EN 1348 (MPa)	>1.0
Tensile adhesion strength after freezing and thawing EN 1348 (MPa)	>1.2
Temperature resistance (°C)	-40 to +70



Main ingredients: cement, polymeric binder, silicate fillers, cellulose thickening agent  
Classification according to EN 12004: **C2TE**

#### 4. Preparation of Surface

Surfaces include solid, dry and clean fine lime, lime-cement or cement render finishes as well as dry and clean concrete surfaces and surfaces of concrete plasters/renders, fibre-cement and gypsum cardboards, chipboards and old ceramic linings. Remove any badly adhered particles, dust, remains of oils, fat and other filth.

Prior to fixing the coatings, dry the newly applied render finishes at least 7 to 10 days for each cm of thickness (the data refer to normal conditions: T = +20 °C, rel. humidity = 65 %) and remove all paint coats, decorative slurries, oil coatings, varnishes and enamels from the old ones. Concrete surfaces and cement plasters/renders should be at least a month old.

Prior to the application of the adhesive, moisten standard substrates, and cover or impregnate very absorbent or extremely unevenly absorbent surfaces with diluted AKRIL EMULSION (AKRIL EMULSION : water = 1 : 1; consumption: 90 - 100 g/m<sup>2</sup> ).

Problematic substrates such as surfaces of old ceramic linings, smooth concrete, fibre-cement and gypsum cardboards and chipboards should be coated with VEZAKRIL prior to fixing (consumption: ~300 ml/m<sup>2</sup>). The adhesion of adhesive to smooth substrates is improved if we »damage« them at least partially by using appropriate tools. We recommend such intervention particularly in case of fixing new ceramics to old ceramic linings.

#### 5. Preparation and Application of Adhesive

Slowly add 25 kg of AKRINOL Uniflex White into 5 litres of clean water and stir until we obtain the adhesive without any lumps and of adequate density. Wait for 5 minutes and then stir again well.

Apply a thin coat of adhesive onto a prepared substrate by using an even smoothing trowel. Then apply the second layer of adhesive onto a still fresh coat by using a stainless notched smoothing trowel. The contact surface between the substrate and lining should be min 90 %. When applying thicker and heavier linings as well as large dimension linings, we recommend the use of the so-called buttering method (application of adhesive on both sides – onto the substrate and lining).

When applying linings on external substrates, on problematic substrates and in swimming pools, the buttering method should be used regardless of the lining size. A notched smoothing trowel with appropriate size of notches is selected depending on the dimension and weight of lining, levelness of its fixing surface and levelness of the substrate. If we would like to achieve a thicker layer of adhesive, use a notched smoothing trowel with notch size of at least 10 mm. The larger and heavier the lining, the thicker must be a layer of adhesive underneath it. The minimum thickness of a layer under the lining is at least 3 mm. Prepare only as much adhesive as it can be used in one hour. At higher temperatures of the air, the open time or usage time is shortened and at lower temperatures it is extended. Since working conditions are not always the same, the occurrence of thin membrane on the surface of applied adhesive must be checked by finger. Linings should not be applied onto the adhesive with the thin membrane on it. The adhesive should be applied to as much substrate as tiles can be applied in each time. Larger dimension linings should be applied one at a time. The use of lower water absorbing ceramic linings extends the drying time. Also, the drying time is longer in case of applying linings into a thicker coat of adhesive. The adhesive should be removed from joints before it hardens.

Works are performed only in suitable weather or microclimate conditions: the temperature of the air and the wall surface should be between +5°C and +35°C and the relative air humidity should not exceed 80 %. External surfaces are protected from sun, wind and rainfall by protective scaffold nettings; however, do not conduct any work in rain, fog or strong wind (≥30 km/h) despite such protection. Do not use the adhesive if there is a danger of freezing 48 hours after the use.

Subsequently, fill joints between tiles with a tile joint filler in a selected colour shade and dilatation joints with a suitable permanently elastic mastic.

Approximate or average consumption (depending on the tile size or on the notching of the application tool):  
AKRINOL Uniflex White 4 – 10 kg/m<sup>2</sup>

#### 6. Tool Cleaning, Waste Management

Thoroughly clean the tools with water immediately after use. Dried stains cannot be removed.

Keep the unused dry compound for potential later use. Useless remains should be mixed with water and when hardened deposited onto the dumping grounds of construction waste (waste classification number: 17 09 04).



Cleaned packaging can be recycled

## 7. Safety at Work

Further instructions regarding handling the product, use of personal protection equipment, waste management, tool cleaning, first aid measures, warning signs, signal words, components determining hazard, hazard statements and safety statements are listed in the product's safety sheet which you can find on Jub's web page or you can require it from the manufacturer or seller. When applying the product, the instructions and regulations regarding safety for construction, façade and painting works should also be observed.

## 8. Storage, Transportation Conditions and Durability

During transportation, protect the product against moistening. Store in dry and airy places, out of the reach of children!

Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months.

## 9. Other Information

Technical instructions contained in this brochure are provided on the basis of JUB's experience and are given as a guideline to achieve the optimum results. JUB cannot accept any responsibility for damage caused by incorrect selection of a product, incorrect use or unprofessional work.

This technical sheet supplements and replaces all preceding editions. JUB reserves the right to change and supplement data in the future.

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