

Product Properties Sheet  
Version: B' - 01/12/2011

# SKW 116 SPECIAL TILE ADHESIVE WITH ZERO VERTICAL SLIPPAGE AND INCREASED OPEN TIME

**C1TE** ACCORDING TO  
EN 12004

## DESCRIPTION

H SKW 116 is a thin layer, cement based tile adhesive and modified with polymer additives for application on both horizontal and vertical surfaces. It consists of cement, quartz sand, lime fillers and admixtures. SKW 116 presents strong resistance to slippage, adhesion on all common

substrates and it is resistant to humidity and frost. Moreover, it avails extended open time (up to 30 minutes) increasing thus the productivity of application team. It is classified as an adhesive type C1TE as per EN 12004 for interior and exterior applications.

## FIELDS OF APPLICATION

*Adhesive SKW 116 is adequate for coating walls and floors with tiles in both interior and exterior areas, as well as for applications which require extended open adhesion time, such as during summer time when temperatures are high. Its thixotropic qualities allow the application team to commence tiles adhesion from the upper side towards the lower one.*

*It is suitable for the adhesion of:*

- clay tiles
- ceramic tiles
- ceramic inlays

- decorative elements consisting of inlays attached to a mesh
- ceramic slabs and ceramic materials, etc.

*On common substrate such as:*

- concrete
- light weight concrete
- AAC(YTONG)
- renders
- flat walls with filled joints
- self-leveling floors, etc.
- cement screed

## ADVANTAGES - CHARACTERISTICS

- Produced with quartz sand
- Extended open time (30min)
- Strong adhesion on vertical surfaces
- Excellent workability
- High mechanical strength – Fast application
- CE certified product- according to European standard EN 12004

## SUBSTRATE PREPARATION

The tile laying substrate must be flat, free from brittle and foreign bodies such as for example plaster residue, paint, oils, etc. It must be stable and free from shrinkage and distortion forces and must not be subject to vibrations.

The absorbent substrates are primed using GLX 290 primer before application.

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## APPLICATION

In a clean container add 7,0-7,5 liters of clean water and gradually empty the content of a 25 Kg sack of product SKW 116, stirring continuously with an electric mixer in order to acquire a uniform wet mortar mass. Let the resulting mixture age for 5 minutes and mix again. The mixture is ready to be used within the next 4 hours. Following the preparation of the mixture do not add more water in order to correct the workability of the wet mortar. This would lead to the reduction of its mechanical strength and the increase of its shrinkage. Spread the adhesive on the surface and then comb the adhesive layer using a special notched spatula. Within 30 min since adhesive layering, place the tiles at their location, pressing firmly in order to ensure full contact. The installation of tiles on the wall may be performed

starting from the upper part with the entire tile and without any slippage.  
The excess adhesive must be cleaned off the joints prior to drying.  
On surfaces larger than 25m<sup>2</sup> it is necessary to install expansion joints. At the contact joints between floors and walls it is recommended to use suitable silica-containing pastes.  
During application and for the next 24 hours the environmental and substrate temperature must be between +5 °C and +35 °C.  
The cleaning of the adhesive is done with water while still wet. When it hardens it is removed mechanically.

## MOUNTING

Mounting and passability is allowed after 24 hours. For mounting there is usage of the tile grouts

of THRAXON FMF150 (based on cement) or FMF155 (based on epoxy).

## CONSUMPTION

The consumption of SKW 116 is approximately 2,0 - 4,0 kg / m<sup>2</sup>. It depends on the tiles type, the tools and the application method

Spatula mm	Consumption kg / m <sup>2</sup>
6	2,1
8	3,0
10	4,0

## MODIFICATION

If during mixture preparation there is addition of 1-2 kg/sack of 25Kg. of VLX 186 emulsion and the necessary water quantity, there is enhancement of the product characteristics which shall respond to class C2TE of the European standard EN 12004 and class S1 of EN 12002.

Following modification the adhesive is adequate for the adhesion of non absorbent tiles and for application on sub-layers subjected to temperature variations.

## PACKING - STORAGE

The product is packed in 25 Kg valve - sacks and is preservative stored on wooden pallets

in dry environment at temperatures greater than 0°C for 12 since its production date..

## NOT RECOMMENDED

*It is not recommended for usage in::*

- substrates made of plaster without prior priming
- glass, plastic, iron, wood
- heated floors
- pools, tanks

- old tiles
- floors submitted to distortions and vibration
- large size tiles
- non absorbent tiles

*In these cases, there should be usage of special THRAXON adhesive types.*



## PRECAUTION

SKW 116 contains cement that reacts with water producing an alkaline solution. For this reason protect your eyes and skin. In case of contact wash with plenty of water. In case of contact with the eyes seek immediately medical advice.

Read the instructions on the label and the Technical Brochure of the product before use. Use adequate protective clothing and gloves. The Safety Sheet of the product is availed to professionals upon request.

## ΤΥΠΟΣ C1TE ΤΟΥ ΕΥΡΩΠΑΪΚΟΥ ΠΡΟΤΥΠΟΥ EN 12004

ΤΕΧΝΙΚΑ ΧΑΡΑΚΤΗΡΙΣΤΙΚΑ	ΜΟΝΑΔΕΣ	ΠΡΟΤΥΠΟ	ΤΙΜΗ
Form			dry powder
Color			grey / whit
Application thickness	(mm)		10
Resistance to temperature	(°C)		-30 to +90
Maximum grain size	(mm)		0,5
Working time	(h)	EN 1015 - 9	5
Correction time	(min)	EN 1015 - 9	≥30
Open time (30min)	(N/mm <sup>2</sup> )	EN 1346	≥0,5
Initial detachment tolerance	(N/mm <sup>2</sup> )	EN 1348	≥0,8
Detachment tolerance in water	(N/mm <sup>2</sup> )	EN 1348	≥0,5
Detachment tolerance following hot ageing	(N/mm <sup>2</sup> )	EN 1348	≥0,5
Detachment tolerance following frost-defrost cycles	(N/mm <sup>2</sup> )	EN 1348	≥0,5
Slip	(mm)	EN 1308	≤0,5
Walking	(h)		24
Strength development	(days)		14
Wall mounting	(h)		12
Floor mounting	(h)		24
Consumption	(Kg/m <sup>2</sup> )		2 - 4
Water demand properties	(ml water /100g of dry mortar)		25 - 27

*Note: The measurements were taken in laboratory environment under a temperature of +23°C, Relative humidity 50% and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite such as temperature, humidity, ventilation, sub-layer and frame absorbance.*

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