

Two components high performance cementitious flexible tile adhesive (Latex modified)

PRODUCT

webercol flex is a two-component cement-based polymer modified, flexible, waterproof tile adhesive for internal & external use. It is a ready mix powder containing cement, siliceous sand and additives.

webercol flex has outstanding qualities such as high bonding strength, high resistance to water and chemicals, water tightness and flexibility.

webercol flex exceeds standard requirements EN12004 and is classified as C2TES2. **webercol flex** is non-sagging and slip resistant "T" with ability to perform in extended open time conditions "E". **webercol flex** is S2 deformable according to standard EN 12002.

It is used internally and externally with a wide range of small to large tiles, and in cases of permanent exposure to high degrees of humidity.

SCOPE OF USE

Applicable tile types include:

- Ceramic
- Sandstone
- Mosaics
- Granite
- Marble
- Porcelain

Applicable substrates include:

- Concrete
- Lightweight blocks
- Stone walls (cleaned and prepared)
- Cement-based plaster and renders
- Gypsum board
- Glazed tiles
- Wood agglomerates
- Aluminum coverings
- Ceramic & terrazzo tiles (after preparation)

Over difficult substrates such as gypsum, wood., primer is required, consult company for advice.

Applicable conditions include:

- Where thermal and dimensional variations are expected
- In vibrating areas
- For external & internal waterproof tiling
- Where resistance to chemical aggression is required

Applicable cases include:

- Swimming pools
- Bathrooms
- Stairs
- Heated floors
- Terraces
- Hospitals
- Facades
- Rooms
- Parking
- Balconies
- Public showers
- Subways



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
32 kg	-	32 kg	19.5 kg	19.5 kg	20 kg	19.5 kg	19.5 kg

CHARACTERISTICS

Appearance	Powder + Liquid
Powder composition	Cement (ASTM C150), fillers-sand and admixtures
Liquid composition	Resins (polymer additives), admixtures
Color	Grey or White
Density	1.55 kg/lit. ± 0.1
Open Time	30 min. (EN 12004)
Pot Life	2 hrs at 20°C
Setting Time (min.)	Initial set: 840
In Standard Condition	Final set: 900
Drying time before traffic	24 hrs at 20°C
Shelf Life	6 months
Mixing Ratio	Mix pre-packed liquid and powder
Coverage	3 to 7 kg/m²
Service Temperature	-20°C to +70°C
Total Volatile Organic Compounds (VOC)	None (<5g/l) - (EPA Method 24)

* Low dust feature available for **webercol flex** in Lebanon

TEST RESULTS

Test for ANSI A118.4	
Water Absorption (ANSI-A 118.4-1999 Cl. H-4.4)	0.76%

Test for EN 12004:2007		
Open Time by Tensile Adhesion acc. EN 1346:2007 (N/mm ²)	25 minutes	>1.5
	30 minutes	>1.5
Tensile Adhesion Strength acc. EN 1348:2007 (N/mm ²)	Con A	>2.4
	Con B	≥1.2
	Con C	>2.7
	Con D	1.1

* (Above values have a ± 10% tolerance)

* Con A - 28 days standard conditions

* Con B - 7 days standard condition + 21 days water immersion

* Con C - 14 days standard condition + 14 days at 70°C

* Con D - 7 days standard condition, 21 days water immersion, 25 freeze/Thaw cycles

* Standard Condition - (50 ± 5)% Relative Humidity & 23 (± 2)°C

ANSI 118.4: 2012 - Shear strength (N/mm ²)			
Type of Tile	Conditions	Standard Requirement	webercol flex Results
Porcelain Mosaic Tiles	28 Days Standard Condition	> 1.38 MPa	2.5 MPa
Quarry Tiles	28 Days Standard Condition	>1.03 MPa	2 MPa

Test for EN 12002

Deformation from horizontal plane (mm) >5

APPLICABLE STANDARDS

BS 5980:1980.

ANSI-A118.4-1999 Cl. H-4.4.

EN 12004:2007

INSTRUCTIONS FOR USE

SURFACE PREPARATION

Surface must be clean, sound, and free from greasy matters and dust.

Substrate should have been sufficiently cured in a way that any shrinkage has already occurred.

Moisten slightly the substrate if it is dry at the time of application, never moisten the tiles.

PRODUCT PREPARATION

Mix the two components of **webercol flex** by pouring the powder in the liquid progressively while stirring the liquid.

An electric mixer with low rotation speed (< 300 rpm) can be used.

Mix until a uniform lump free paste is obtained. Let the paste rest for a few minutes before starting the application.

PRODUCT APPLICATION

Apply **webercol flex** evenly on the substrate. Use a notched trowel to have a uniform thickness.

Apply the tiles on the substrate and press them firmly, while

making sure that the paste does not slip from the tile sides keeping a minimum thickness of 2 to 3 mm.

webercol flex can also be applied on the back of tiles to ensure full adhesion on the entire surface.

CLEANING

Clean the tools with water after use. Cured materials can only be removed mechanically.

PRECAUTIONS

Apply **webercol flex** on the substrate by areas of around 1m² each, which can be tiled within a maximum of 25 minutes from application time at 20°C. After that time, an outer skin may form thus preventing the tile from adhering properly to **webercol flex**. Adjustments to the tiles should only be made during **webercol flex**'s open time.

It is recommended to leave a minimum width of 2 mm around the tiles.

Grouting the tile joints should only be done at least 24 hours after tiling, using **weberjoint perfect** or **weberjoint** (Carrojoint). For immersed areas, allow 21 days curing for **webercol flex** before filling with water.

Clean the tools with water after use.

STORAGE

webercol flex can be stored for 6 months in dry conditions, away from extreme temperatures and protected against wind.

SAFETY PRECAUTIONS

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention. The product is non-flammable.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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