

# Prince Color Z 301 CL Profi

Special flexible fluid rapid setting paving cement adhesive. Suitable for balconies, terraces and heavy mechanically loaded areas.

## Extent of use

- For indoor and outdoor application
- For floors
- Specially for balconies, terraces and heavy mechanically loaded industrial floors
- For cavity-free laying of large size of ceramics and paving with different thickness as Cotto or terrazzo plates
- For laying of all tiles types into areas with high hydrothermal load (substrates in areas with damp operation should be coated with Prince Color® IZOL K or Prince Color® IZOL B waterproofing slurries)
- To level uneven substrates ( thickness 2-15 mm) prior to laying paving
- On cement screeds, ground anhydrite or gypsum based floated screeds, renders, heated screeds, plaster boards, gypsum fibre boards, insulation boards, plaster renders, old tiles and floor tiles.

## Product attributes

- Official test certificate, meets the requirements of C2FE in accordance with ČSN EN 12004, complies with the requirements of EU standards
- Resistant against frost
- Good adhesion without priming on concrete and cement screeds. Other substrates are necessary to prime
- Easy workable to fluid mortar bed – it is not necessary to use combined adhesive method (Buttering-Floating), i.e. no back-buttering of reverse paving side required
- Good setting even under low temperatures.

## Substrate preparation

Minimum age of the substrate

- Screeds from rapid setting cement binders 1-2 days
  - Cement screeds approx. 28 days
  - Construction (casted) concrete approx. 90 days
- The substrate must be sound, clean and load bearing. Oil stains, residues of stripping oil stains and other contamination must be thoroughly removed. Substrate must be levelled.

Floors are to be levelled with range of special self-levelling floor slurries Prince Color®.

Absorbing cement based substrates are to be primed with Prince Color® Multigrund PGM prime. Very absorbing substrates are to be primed till absorbing (avoid glossy surface). Smooth or slightly absorbent surfaces can be treated with Prince Color® Multigrund PPB coat. Keep the standard diluting and allow the primer to dry.

Freshly installed cement screeds must not have a residual moisture content higher to 4%, anhydrite or gypsum based screeds not more than 0, 5 % (measured with a CM-moisture equipment).

## Application

### Adhesive mixing

Place gauging water (tap water according CSN EN 1008) into a clean vessel. Add the powder and mix the mortar until a plastic, lump-free consistency is achieved. For mixing the adhesive mortar is recommended to use a suitable stirrer with spiral adapter mounted on an electric drill (max. 500 r.p.m.). Adhesive mortar is allowed to slake for about 3 minutes then is remixed briefly.

## Technical Data

Material Basis	Cement and fine additives.
Bulk density	approx. 1,5 kg/dm <sup>3</sup>
Volume weight of wet mortar	1,7 kg/dm <sup>3</sup>
Gauging water for	tap water according CSN EN 1008
- 1 kg powder	0,2 l
- 25 kg bag	5,0 l
Adhesive bedding thickness	2 to 15 mm
Working time*	approx. 60 minutes
Open time*	approx. 30 minutes
Initial tensile strength	≥ 1 N/mm <sup>2</sup>
Tensile strength after water dipping	≥ 1 N/mm <sup>2</sup>
Tensile strength after heat action	≥ 1 N/mm <sup>2</sup>
Tensile strength after freezing/defrosting cycles	≥ 1 N/mm <sup>2</sup>
Tensile strength slake time (not before 30 minutes)	≥ 0,5 N/mm <sup>2</sup>
Working temperature (substrate temperature)	+ 5°C to +25 °C
Temperature resistance	-30°C to + 80 °C
Curing times*	
- walkable after	approx. 6 hours
- grouting after	approx. 6 hours
- fully- load bearing	approx. 1 days
Consumption	approx. 1, 4 kg /m <sup>2</sup> /mm thickness
Consumption according notch size	
10 mm	approx. 4,5 kg/m <sup>2</sup>
12 mm	approx. 5,5 kg/ m <sup>2</sup>
16 mm	approx. 7,5 kg/ m <sup>2</sup>

\*At + 23 °C and 50 % relative humidity. Higher temperatures speed up and lower temperatures increase mentioned times.

 viz datum výroby vytřítané na obalu
BASF Stavební hmoty Česká republika s.r.o. K Májovu 1244 537 01 Chrudim
<b>EN 12 004</b> Zlepšená rychletrdnoucí cementová malta s prodlouženou dobou zavádnutí pro keramické obkladové prvky
Reakce na oheň: třída A1/ A1, Prvotní tahová přídržnost: 0,5 N/mm <sup>2</sup> Počáteční tahová přídržnost: 1,0 N/mm <sup>2</sup> Tahová přídržnost po tepelném stárnutí: 1,0 N/mm <sup>2</sup> Tahová přídržnost po uložení ve vodě: 1,0 N/mm <sup>2</sup> Tahová přídržnost po cyklu zmrazování/ozmrazování: 1,0 N/mm <sup>2</sup>

### Adhesion to fluid bed

Pour Prince Color® Z 301 CL Profi on substrate and spread it on area with notched trowel under laying paving during open time (approx. 30 min.). The open time is checked by finger tips test.

Place paving with twist and slide motion to the bed to achieve required position.

Notch size trowel is chosen according paving type and adhesion bed thickness.

### Grouting

For grouting of tiles and paving are used following grouts:

- Flexible cement hydrophobised grouting material Prince Color® FM-FX (joint width 1- 12 mm)
- Flexible cement water repelent hydrophobised grouting material Prince Color® FM-FX Plus (joint width 1- 12 mm)
- Neutral silicone sealing material: Prince Color® FM-S

### Packaging and storage

Packaging 25 kg bag or 5 kg bag with PE liner, delivery on wrapped EURO pallets.

Shelf life in dry warehouse is 12 month from the date of production.

### Please note

- Do not apply at temperatures under +5°C and above +25°C, under strong sunny lights and wind
- During application on old tiles the bonding layer it is recommended to spread approx. 1 mm thickness of adhesive Prince Color® Z 301 CL Profi first or use special bonding coat Prince Color® Multigrund PPB and after 12 hours tile new tiles on adhesive Prince Color® Z 301 CL Profi. With non standard substrates please consult with technician.
- The open time is reduced in case of very absorbing substrates (recommendation: priming with Prince Color® Multigrund PGM prime coat).
- Consumption depends on quality of substrate, back profile of the ceramic, used tools and on application method
- Using of correct trowel and sufficient thickness of adhesion bed ensure cavity-free laying of paving.
- When adhesive Prince Color® Z 301 CL Profi is used for levelling of the substrate the grouting should be done not before proper drying of material (max. residual moisture 4%)
- Partly cured mortar is not recommended to dilute with water or mix with fresh one.
- Tools should be washed with water immediately after use; cured residues can be removed by mechanical means.
- Do not add any additional materials

### Safety instruction

Mixture can irritate skin and mucus membrane. There is risk of allergic reaction in case of skin contact. During work avoid contact with skin and eyes. Do not inhale. Do not eat and drink during application. Keep out of reach of children. Wear suitable protective clothing and gloves.

### Information for architects and engineers

Consultations on the building sites, additional information, tests and samples descriptions are available at particular technicians and the headquarters.

### Waste material disposal instruction

Product is to be disposed in accordance with particular rules valid in country of use.

Do not allow product to reach ground water, water bodies and sewage systems.

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