

Prince Color Z 301 FX Forte

Flexible rapid curing adhesive for tile and paving

Extent of use

- For indoor an outdoor application
- For walls and floors where rapid putting into the service and full loading is required
- For adhesive of absorbing and low absorbing ceramic, glass tiling and mosaics, vitrified tiles, concrete plates, light construction plates and insulation plates from glass or mineral wool.
- For adhesion of tiles into wet condition areas (substrate should be coated with Prince Color® IZOL range waterproofing slurries).
- Suitable for balconies, terraces, outdoor stairs, façades and plinths (substrate should be coated with waterproofing slurry Prince Color® IZOL B).
- 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, approved C2FT according ČSN EN 12004 standard
- Resistant to frost
- Fully loaded after only 24 hours
- Good adhesion without priming on concrete, cement screeds and renders. Other substrates are necessary to prime.

Substrate preparation

Minimum age of the substrate

- Screeds from rapid setting cement binders 1-2 days
- Plasters approx. 7 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.

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

Absorbent cement based substrates and renders are to be primed with Prince Color® Multigrund PGM prime. Very absorbent 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

1/ 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.

2/ A thin bond coat is applied to the substrate with a smooth edge of a stainless trowel.

3/ A mortar is applied by notched trowel. The adhesive bed is combed if possible in one direction. In possible moist areas and for large area application it is recommended to apply a thin coat of adhesive on the reverse side of the tile.

It is necessary to mix only as much mortar as it is possible to use during the open time (approx. 10 minutes). The open time is checked by finger tips.

4/ Tiles are positioned into adhesive bed by gentle shifts and smoothed.

Grouting

For grouting of tiles and paving are used following grouts:

- Cement grouting material Prince Color® FM (joint width 1- 8 mm)
- Flexible cement hydrophobised grouting material Prince Color® FM-FX (joint width 1- 12 mm)
- Flexible cement water repellent 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 in 25 kg with PE liner, delivered on wrapped EURO pallets.

Shelf life in dry warehouse is 6 month from the date of production.

 viz datum výroby vytištěné na obalu
BASF Stavební hmoty Česká republika s.r.o. K Majovu 1244 537 01 Chrudim
EN 12 004 Zlepšená rychle tvrdnoucí cementová malta se sníženým skluzem pro keramické obkladové prvky
Reakce na oheň: třída A1/ A1, Prvotní tahová přídržnost: 0,5 N/mm ² Počáteční tahová přídržnost: 1,0 N/mm ² Tahová přídržnost po tepelném stárnutí: 1,0 N/mm ² Tahová přídržnost po uložení ve vodě: 1,0 N/mm ² Tahová přídržnost po cyklu zmrazování/rozmrzávání: 1,0 N/mm ²



Technical Data

Material Basis	Cement and fine additives.	
Bulk density	approx. 1,45 kg/dm ³	
Volume weight of wet mortar	1,55 kg/dm ³	
Gauging water for	tap water according CSN EN 1008	
- 1 kg powder	0,21 l	
- 25 kg bag	5,25 l	
Adhesive bedding thickness	1 to 8 mm	
Working time*	approx. 30 minutes	
Open time*	approx. 10 minutes	
Initial tensile strength	≥ 1 N/mm ²	
Tensile strength after water dipping	≥ 1 N/mm ²	
Tensile strength after heat action	≥ 1 N/mm ²	
Tensile strength after freezing/ defrosting cycles	≥ 1 N/mm ²	
Tensile strength slake time (not before 30 minutes)	≥ 0,5 N/mm ²	
Working temperature (substrate temperature)	+ 5°C to +25 °C	
Temperature resistance	-30°C to + 80 °C	
Curing times*		
- walkable after	approx. 3 hours	
- grouting after	approx. 3 hours	
- fully- load bearing	approx. 1 day	
Consumption / type of tiles	required notch size	consumption
Small mosaic	3-4 mm	approx. 1,5 - 2,0 kg/m ²
Ceramic Tile (15x15)	5-6 mm	approx. 2,5 - 3,5 kg/m ²
Coarse Ceramics	8-10 mm	approx. 4,0 - 6,0 kg/m ²

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

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 FX Forte first and after 3 hours put the new tiles on adhesive Prince Color® Z 301 FX Forte or use special bonding coat Prince Color® Multigrund PPB (adhesion after 12 hours). With non standard substrates please consult with technician.
- Adhesive Prince Color® Z 301 FX Forte does not level the irregularities on substrate. At those cases it is useful to apply selflevelling slurries from Prince Color® range (Prince Color® NC 515, Prince Color® NC 510 or Prince Color® NA 420).

- The open time is reduced in case of absorbent substrates (recommendation: priming with Prince Color® Multigrund PGM prime coat.
- For correct function of ceramic tiles and pavements it is necessary to have sufficient cover of reverse side of tile (indoor min. 65%, outdoor min. 95% of area).
- Consumption depends on quality of substrate, back profile of the ceramic, used tools and on application method
- 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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