

Prince Color Z 301 Speciál

Tile adhesive for tile and paving adhesion on concrete, screed and render/plaster

Extent of use

- For indoor and outdoor use
- Special adhesive for tiles and paving on walls and floors especially for heavy-duty loads.
- For laying of coarse and fine ceramics in the thin-bed method on concrete, screeds and renders
- For laying of less absorbing ceramic tiles and paving including vitrified ceramics and mosaics
- On cement screeds, ground anhydrite and/or gypsum based floated screeds, gypsum fibre boards, gypsum renders

Product attributes

- With official test approval according ČSN EN 12004 with C2T certifikat.
- Frost resistant
- Easy workable
- Good adhesion without substrate priming and penetration on concrete screeds and renders, for other substrates is necessary to use primer.

Substrate preparation

Minimum age of the substrate

- Rapidly curing screeds a1 - 2 days
- Renders approx. 7 days
- Concrete screeds approx. 28 days
- Construction concrete approx. 90 days

The substrate must be solid, clean and load bearing. Oil stains, rests of form removal oils and other residues must be thoroughly removed. The substrate irregularities must be levelled with suitable self levelling compound Prince Color® range. Renders and absorbent substrates, are to be primed with Prince Color® Multigrund PGM. Very absorbed substrates must be coated with primer until absorb (do not allow to create glossy surface), for smooth and less absorbed substrates is recommended to use special coat Prince Color® Multigrund PPB. Use standard gauging ratio and allow primer to dry. Freshly applied cement screeds must not have a residual moisture content above 4%, anhydrite and/or gypsum based screeds not more than 0,5 % (measured with a CM-moisture meter).

Application

1/ It is necessary to mix the mixture properly with potable water by suitable low speed stirrer mounted on an electric drill (max. 500 r.p.m.) until lump-free consistency is achieved. Adhesive mixture is allowed to slake for about 3 minutes then is remixed briefly.

2/ A thin adhesive bonding thickness is applied to the substrate with a smooth edge of the stainless trowel.

3/ An adhesive bed is applied by notched trowel in one direction if possible. It is necessary to mix only as much mortar as it is possible to use during the open time (approx. 20 minutes). The open time is checked by finger test.

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

Grouting

For grouting 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 repelent hydrophobised grouting material Prince Color® FM-FX Plus (joint width 1- 12 mm)
- Neutral silicone grouting material Prince Color® FM-S

Technical Data

Material Basis	Concrete and fine grain additives.
Bulk density	approx. 1,5 kg/ dm ³
Volume weight of fresh mixture	approx. 1,6 kg/ dm ³
Gauging water for	potable water
- 1 kg mixture	0,23 l
- 25 kg package	5,75 l
Working time*	approx.90 minutes
Opening time*	approx.20 minutes
Initial adhesive strength	≥ 1 N/mm ²
Adhesive strength after dipping	≥ 1 N/mm ²
Adhesive strength after heating	≥ 1 N/mm ²
Adhesive strength after Freeze-Thaw cycling	≥ 1 N/mm ²
Adhesive strength after curing (not at least after 30 minutes)	≥ 0,5 N/mm ²
Working temperature	
substrate temperature	+ 5°C to +25 °C
Slip	≤ 0,5 mm
Consumption	approx. 1, 4 kg of dry powder/m ² /mm thickness of an adhesive bed
Temperature resistance	- 30°C to + 80 °C
Curing times*- can be walked on	approx. 24 hours
- can be grouted on	approx. 24 hours
- fully load-bearing	approx. 7 days
Consumption	required notch size
/ type of tiles	consumption

Small mosaic	3-4 mm	approx.1,7-2,4 kg/ m ²
Ceramic Tile 15x15	5-6 mm	approx.2,5-3,0 kg/ m ²
Coarse Ceramics	8-10 mm	approx.3,5-4,5 kg/ m ²

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



Packaging and storage

Packaging 25 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 and under extreme hot and windy conditions.
- It is recommended to use Prince Color® Z 301 FX Profi, Prince Color® Z 301 FX Forte or Prince Color® Z 301 CL Profi for tile and paving application on old tiling and paving, for paving on balconies and outdoor terraces.
- The open time is reduced in case of absorbent substrates (recommendation: always prime with Prince Color® Multigrund PGM coat).
- The real consumption depends on substrate quality, ceramic tile type, used tools and the way of application.
- Adhesive Prince Color® Z 301 Speciál does not level irregularities of substrate. It is recommended to use self leveling floor compounds of Prince Color® range (Prince Color® NC 515, Prince Color® NC 510 or Prince Color® NA 420) to repair irregularities on substrate.
- Read back side of tiles should be properly covered with material in order to achieve correct function of tiles or pavings (indoor minimum 65% of whole area, outdoor minimum 95% of whole area).
- Mortar with initial curing cannot be diluted with water or mixed with fresh one.
- Tools should be washed with water immediately after use; cured residues can be removed by mechanical means.
- It is not allowed to add other substances to the mixture.

Safety instruction

Z 301 Speciál contains cement. Cement reacts with moisture or gauging water which may cause skin irritation and /or caustic burns to mucous membranes (e.g. eyes) Risk of allergic reaction therefore avoid contact with eyes and prolonged skin contact. In case of eye contact immediately rinse with plenty of water and consult a doctor. In case of skin contact remove immediately soaked clothing and wash with plenty of water and soap. Keep out of reach of children. Wear suitable protective suits 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.

BASF Stavební hmoty Česká republika s.r.o.
K Májovu 1244
CZ-537 01 Chrudim
T: +420 469 607 111
F: +420 469 607 112
E-mail: info.cz@basf.com
www.basf-sh.cz