

Prince Color® Z 301 XT

Reinforcing adhesive screed for thermal insulation systems of buildings

Field of application

- For outdoor and indoor use.
- For walls and ceilings to fix polystyrene or rock wool insulation boards.
- As reinforcing screed to create basic reinforcing coat for thermal insulation systems.
- As surface for thin-coat final plaster.
- To create screed coat on even masonry and solid plasters.
- Suitable even for plinths parts

Features

- Frost resistance
- Stable and solid, easy and fast work with insulation boards
- High speed during reinforcement screed creating thanks to technical features.

Substrate preparation

- Substrate has to be even, solid, clean, dry and dustless, without particles, oil stains and old paintings. Use Prince Color® Multigrund PGM primer for water-absorbing substrates. For highly water-absorbing substrates apply the primer as long as they are absorbing (avoid glistening surface formation) and smooth or low water absorbing substrates are treated with coat Prince Color® Multigrund PPB. Follow the instructions concerning standard gauging and following technological break time allowing drying. Substrate under insulation material cannot have got unevenness higher than 10 mm for 1 m length (measured with levelling rod). Substrate for basic reinforcement coat creation cannot have got unevenness higher than 5 mm for 1 m length (measured with levelling rod).

Application

- Dry material is blended with water using suitable stirrer mounted on an electric drill (max. 500 r.p.m.) to achieve the required consistency of lump free mixture. Allow it to slake for about 3 minutes after particular agent application then remix briefly again before following application.

Adhesive screed spreading on insulation boards to be fixed:

- Prince Color® Z 301 XT material is spread with plastering trowel on the board to create a frame and with minimum 2 disks in the centre of board (so called "frame-dots" method is used when substrate unevenness is close to 1 cm for 1 m length) or Prince Color® Z 301 XT material is spread with teeth trowel on whole board area (so called "overall method" is used when substrate unevenness are slight.
- Rock wool layers with perpendicular fibres are fixed always "overall method".

Overall reinforcement – basic coat creation

- Prince Color® Z 301 XT material is spread with teeth trowel (10 x 10 mm tenth) on substrate area. Reinforced fabric is pushed into coat using trowel. Screed going through apertures is spread to cover the fabric or missing screed is added eventually. Minimum basic coat thickness is 3 mm. (Reinforced fabric should be placed in top thirds without screen copied to the surface).

Technical Datasheets

Material base	Cement and special fine-grained additives
Bulk density	approx. 1,4 kg/dm ³
Fresh render density	approx. 1,9 kg/dm ³
Gauging water	
– for 1 kg mixture	approx. 0,23 l
– for 25 kg mixture	approx. 5,75 l
Working time*	approx. 60 minutes
Opening time*	minimum 20 minutes
Compression strength after 28 days*	minimum 13 MPa
Tensile strength after 28 days*	minimum 3 MPa
Bonding to substrate after 28 days*	minimum 0,5 MPa
Working temperature (substrate temperature)	+ 5°C to +25 °C
Frost resistance	yes, minimum 25 cycles
Consumption	
– adhesive	
and reinforcement**	approx. 1,54 kg dry plaster /m ² and mm of coat thickness
Consumption	
– adhesive – overall	approx. 3,5 – 5 kg dry plaster /m ²
– frame-dots	approx. 4 – 5 kg dry plaster /m ²
Consumption	
– screed (reinforcement)	approx. 4,5 – 5 kg dry plaster /m ²
Total consumption	
– adhesive	
and reinforcement	approx. 8 – 10 kg dry plaster /m ²
Curing time* (on slight water absorbing substrate)	
spreading of thin-coated renders after	approx. 2 days
spreading of other renders after	approx. 2 days
Temperature resistant	- 40 °C up to + 80 °C
Colour tint	grey/white
*At + 23 °C and 50 % relative humidity. Higher temperatures speed up and lower temperatures increase mentioned times.	
It should be counted with higher consumption for unevenness areas and machine spreading.	

Packing and storage

- Packing 25 kg paper bag with PE liner, supplies on EURO pallets covered with foils
- Store on dry place, lifetime is 12 months after production data

Please note

- Do not apply at substrate and ambient temperatures below +5°C or above + 25°C
- Protect new screed coat against too fast drying (sun, wind, high temperature)
- Joints must be overlapped min. 20 cm it is not allowed to create board joints at transformation joints and areas between different construction parts (concrete/masonry), construction joints and corners.
- Construction must have got stabile moisture condition. All works on inner plasters and screeds must be finished.
- For plinths parts apply on reinforcement screed waterproof paint system or mosaic Prince Color® Multiputz MP.
- It is not possible to add other components to the mixture.
- We recommend detail instruction training and showing of particular application at our regional representatives and specialists in order to achieve adhesive and screed perfect processing.

Safety instruction

Irritating of skin, eyes and mucous membranes. Avoid any contact with skin or eyes. Do not inhale. Do not eat or drink during the work. Do not allow material to dry on skin (may cause a sensitisation). Protect eyes during spray application. In case of contact with eyes rinse them immediately with water. Keep out of children. Wear suitable gloves and protective clothing

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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