

HighBond WP Flex

Highly flexible, cement based acrylic modified waterproofing coat

Product Description

HighBond WP Flex is a two component polymer modified cementitious, water proofing, easy-to-use, and highly flexible water proofing material, for internal and external applications.



Areas of Application

- For waterproofing of water retaining structures and reservoirs.
- For protection of concrete substrates and masonry against carbon dioxide, chloride ions, water and de-icing salts.
- For caulking holes, steam gutters, waste water channels and pipes.
- For shear walls, roofs, base cellars, foundations, curtain walls, bridge, thermal springs.
- For wet areas such as kitchen, balcony, terrace, bathroom, WC, swimming pools and decorative pools.
- Hot spring and baths.



Advantages

- Waterproof, suitable for roofs and water retaining structure and basements.
- Breathable, water vapor preamble.
- Durable, excellent resistance to UV attack.
- Excellent protection against carbon dioxide, chloride ions and water.
- Non-toxic, suitable for drinking water.
- Cost effective, quick and easy brush or spray application.
- Suitable for internal and external applications.
- Able to withstand light foot traffic.
- Able to withstand high positive and negative pressures.

Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

General Considerations

Above-mentioned product information and descriptions are prepared for guidance purposes as a result of our experiences and meticulous studies. The variety of related materials and their different construction and operation conditions can not be controlled or influenced by us individually. For applications beyond our control, the guarantee status is only limited to the quality of sold product. Except the manufacturing of the product, no guarantee is given for application. This technical sheet invalidates all the existing sheets. The quality of the performed job may vary depending on your professional use of the product. If you are hesitant, make a little test or get technical help.

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Standards

HighBond WP Flex suitable for use in contact with potable water when tested in accordance to BS6920.

Technical Data

Technical Property	
Mixed density:	1.65 gm/cm ³ (A:liquid and B:powder are mixed)
Working time:	45 minutes
Color	Grey/ Green or white
Mixing ratio	
Min. application Temperature:	5°C
Tensile strength: (mortar consistency) to BS6319 pt.7, ASTM D4541-02	>2 MPa@28 days
Permeability (2mm thickness) DIN1048	Pass@positive water pressure >12 bars Pass@negative water pressure >6 bars
Bond strength: (concrete failure) to ASTM D4541-02	>2MPa
Flexural strength: (mortar consistency) to BS6319 pt.3	>6.5MPa
Elongation at break: (without reinforcement)@ 4mm thickness ASTM D412	>15% dry curing after 28 days >10% wet curing after 28 days
Mechanical strength	~ 2 days
Maximum grain size	0.5 mm
Initial setting	40-50 mins.
Final setting	2-3 hrs.

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Method of use

Substrate preparation

The floor, on which there will be application, should be cleaned of all loose parts, oil and other chemicals and the defects on the surface are repaired with Ridge Repair mortar. HighBond WP Flex A: Liquid component is poured into a clean application cup and B: Powder component is completely emptied in it, and with a low-speed and suitable mixer, a smooth homogeneous mixture is obtained in 3-4 minutes until all the lumps disappear. After resting the mixture for 3-5 minutes it is stirred again and made ready for use. (Depending on the air temperature, %10 water may be added to the mixture) Application can be done with a brush or towel.

Application

Highbond WP Flex can be applied by brush or spray. The mixed material should brush well into the surface. Strike off with the brush in one direction. Care must be taken not to spread the materials too thin. When the material begins to drag, do not add any water, but dampen the surface again.

Leave the first coat overnight to cure before applying the second coat. The second coat shall be applied by brush in a similar way to the first layer but preferably perpendicular to the previous layer to ensure good bond and coverage.

Cleaning

All tools should be cleaned immediately after finishing by clean water. Hardened materials should be cleaned mechanically.

Packing

HighBond WP Flex is available as 25 Kg/ pack (8.3 Kg polymer & 16.7 Kg powder).

Coverage

Approximately 13-16 m².

Storage

HighBond WP Flex has a shelf life of 24 months from date of manufacture if stored at temperature between 2 °C and 50 °C.

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