

PRODUCT DATA SHEET

BANTEK® tool to clean drill holes

DESCRIPTION

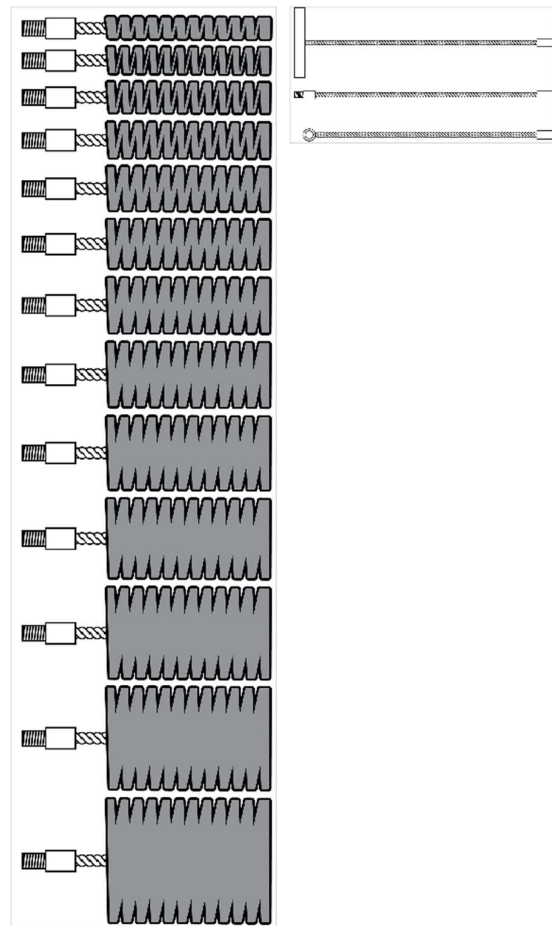
BANTEK® Hole Cleaning Brushes Nylon is a brush to clean drill hole sizes of $\varnothing 12\text{mm}$ to $\varnothing 55\text{mm}$ for BANTEK® applications.

USES

Manual drill hole cleaning used in combination with the BANTEK cleaning pump or compressed air

CHARACTERISTICS / ADVANTAGES

- Easy to use
- Good cleaning performance
- Different diameters for all sizes of drill holes
- Full set available
- Additional accessories available to extend the handle length



APPROVALS / CERTIFICATES

Full Nylon brushes are referenced in the corresponding approvals of each BANTEK® product

PRODUCT INFORMATION

Packaging	Bag of 1 piece per brush size (Head + extension + handle)																										
Appearance / Color	Steel Grey + transparent nylon																										
Shelf life	Unlimited																										
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at room temperatures. Always refer to packaging. Avoid Heat.																										
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Dimensions of extension length: 300 mm

SYSTEMS

System structure	Ancillary products: <ul style="list-style-type: none">▪ BANTEK cleaningpump
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BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

- Method Statement: BANTEK® products.
- Product data sheets: BANTEK® products
- Approvals: BANTEK® products
- Application video: BANTEK® products

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

Hole cleaning is an important part of all installations and has an essential effect on the performance of the anchorages. A combination of correct diameter brush and compressed air (supplied by compressor) or hand pump must be used to clean holes.

The drill hole must be thoroughly cleaned with the special original BANTEK® brush.

The diameter of the brush must be larger than the diameter of the drill hole.

Insert the brush to the very end of the drill hole. Pull the brush out. Repeat this procedure.

Do not use other cleaning brushes than original BANTEK® brushes.

LOCAL RESTRICTIONS

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BANTEK ERH Bond 102

Epoxy resin concrete bonding agent

Uses

For bonding fresh wet cementitious materials to existing cementitious surfaces. For use on horizontal surfaces or on vertical surfaces where mortar or concrete can be supported by formwork. The long 'open' life makes it suitable for use with formwork or where additional steel reinforcement has to be fitted. The product is ideal for roads, bridges, pavements, loading bays and factories, and for bonded or granolithic floor toppings. ERH Bond is equally suited to internal and external applications.

Advantages

ERH Bond may also be used as part of a repair system where a substrate/repair barrier is required or where the substrate is likely to remain permanently damp or wet.

- Can be applied on to dry or damp substrates
- Exhibits high mechanical strength
- Positive adhesion - exceeds that of the tensile strength of the host concrete
- Slow cure allows time to erect steel reinforcement and formwork
- Solvent-free - can be used in enclosed locations

Description

ERH Bond is based on solvent-free epoxy resins containing pigments and fine fillers. It is supplied as a two-component material in pre-weighed quantities ready for on-site mixing and use. The 'base' component is white and the 'hardener' component is green, providing visual evidence that adequate mixing has been achieved.

(Nitobond EPFS, suitable for cold weather working, can be made available when specifically requested.)

Standards compliance

ASTM C881: Type II, grade 2 class E & F.

Specification

Epoxy bonding agent

The bonding agent shall be ERH Bond a two-component solvent-free epoxy resin. The two components shall be differentially pigmented in order to ensure visually that correct mixing has taken place prior to the application.

Properties

Test method	Typical result
Compressive strength (ASTM D695)	: 70 N/mm ²
Tensile strength (ASTM D638)	: 30 N/mm ²
Slant Shear Strength (BS 6319, Part 4)	: 36 N/mm ²
Water Absorption (ASTM D570)	: 0.05%

Design criteria

ERH Bond is designed with an overlay time of 12 hours at 35°C and 5 hours at 45°C, making it more suitable for use where additional steel reinforcement and formwork has to be fitted or where temperatures are high. The minimum application temperature for ERH Bond is 5°C. Consult the local Bantek office for further information.

Application Aspects

Working Life (4ltr pack)

@ 25°C	: 160mins
@ 30°C	: 90 mins
@ 35°C	: 80 mins

Full cure : 5 days @ 35°C
4 days @ 45°C

Maximum Overlay time : 16 hours @ 25°C
12 hours @ 35°C
5 hours @ 45°C

Minimum overlay time : Overlay when tacky but not wet.

Bantek ERH Bond

Instructions for use

Preparation

Clean all surfaces and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surfaces, remove any laitance and expose the aggregate by light scrubbing or grit-blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination and soundness of the substrate should then be assessed by a pull-off test.

Mixing

Any steel reinforcement and formwork should be prepared, cut to size and shape, and made ready for assembly before mixing commences.

Care should be taken to ensure that ERH Bond is thoroughly mixed. The 'hardener' and 'base' components should be stirred separately before mixing to disperse any settlement.

The entire contents of the 'hardener' tin should then be poured into the 'base' tin and the two materials thoroughly mixed using a suitable slow-speed drill and mixing paddle for 2 minutes until a fully uniform colour is obtained. The sides of the tin should then be scraped and mixing should continue for a further 2 minutes.

Application

ERH Bond should be applied as soon as the mixing process has been completed. It should be brush or roller applied to the prepared surfaces, being sure to achieve an unbroken coating across the entire substrate.

ERH Bond should be tacky before the new concrete, screed or mortar is placed.

The maximum overlay times (see Properties) should also be carefully observed. Failure to apply the new concrete, screed or mortar within the maximum overcoating time will result in ERH Bond becoming 'hard', thus creating a slip plane rather than a bonding action.

If the maximum overlay time is missed, then the ERH Bond must be mechanically removed and a fresh application made. The concrete, screed or mortar should then be applied in accordance with the overcoating minimum and maximum stated above.

As soon as the ERH Bond has been applied, any required steel reinforcement and/or formwork should be erected and fixed securely in place.

Cleaning

ERH Bond should be removed from tools, equipment and mixers with Bantek Solvent 102 immediately after use. Hardened material can only be removed mechanically.

High temperature working

Whilst the performance properties of ERH Bond at elevated temperatures are assured, application under such conditions can sometimes be difficult. It is therefore suggested that, for temperatures above 35°C, the following guidelines are adopted as a prudent working regime:

- (i) Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (ii) Keep mixing and placing equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- (iii) Try to eliminate application in the middle of the day, and certainly avoid application in direct sunlight.
- (iv) Have a ready supply of Bantek Solvent 102 available for immediate cleaning of tools after use.

Technical support

Bantek offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Bantek ERH Bond

Estimating

Supply

ERH Bond	: 1 and 4 litre packs
Bantek Solvent 102	: 5 litre cans

Coverage

ERH Bond	: 3.5 - 4.0 m ² /litre
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Note: The coverage figures for ERH Bond products are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

Storage

Shelf life

ERH Bond has a shelf life of 12 months. Bantek Solvent 102 has a shelf life of 24 months if kept in a dry store in the original unopened packs.

Storage conditions

Store in dry conditions in the original unopened packs. If stored at high temperatures, the shelf life may be reduced.

Limitations

- ERH Bond should not be applied when the temperature is below 5°C or is 5°C and falling. If any doubts arise concerning temperature or substrate conditions, consult the local Bantek office.

Precautions

Health and safety

ERH Bond and Bantek Solvent 102 should not come in contact with skin or eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection. In case of contact with skin, remove immediately with resin removing cream followed by washing with soap and water.

Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - **do not** induce vomiting.

Fire

ERH Bond is non-flammable.

Bantek Solvent 102 is flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.

Flash points

Bantek Solvent 102	: 33°C
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For further information, refer to the Product Material Safety Data Sheet.

Bantek ERH Bond

Additional Information

Bantek manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Bantek additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Bantek office - as below.

* Denotes the trademark of Bantek International Limited

† See separate data sheet

Important note

Bantek products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Bantek datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

Head Office telephone: 020-65292323 Website. www.bantek.com email: bantek.india@gmail.com



BANTEK CONSTRUCTION PRODUCTS

Head Office : Plot no 17 Ganraj city, near varad nagari , Bhagatsingh chowk ,Asarjan , nanded, maharashtra, India

www.bantek.co.in

BANTEK ERHF Grout 118

Epoxy Tile Grout (2K)

Product Description:

Magic Bond – Epoxy Tile Grout EG-200 (2K) is a 2 component, epoxy based tile grout specially designed for quick grouting of joints up to 10 mm with excellent chemical and mechanical resistance properties. It is available in 8 popular range of colors.

Suitable For:

Dry & Wet Areas like Bathroom, Kitchen, High Traffic Areas, and Swimming Pools in Residential & Commercial areas including industries, hotels & shopping malls.

Advantages:

- High Bond Strength
- Water Resistant
- Cleanable with Water
- Anti-Bacterial
- Low VOC
- Available in colors
- Easy to Mix & Apply

Packaging: Available in a 1 Kg Bucket

Part A Resin – 930 g Part B

Hardener – 70 g

Appearance: Part A Resin: Colored Paste

Part B Hardener: Pale Yellow Liquid

Coverage: Refer Coverage Table given in the Shade Card

TECHNICAL DATA

Applicable Standard:

Performance Properties:

Mixing Ratio	Part A, : Part B, Total weight = 5 KG
Viscosity	≈ 100000 MPa
Full Cure (± 27° C)	2 days
Pot Life @ 25° C	< 20 minutes
Temp Range	0° to 80° C
Mix Density	1.80 gm/cc
Foot Traffic	24 Hrs.

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

Conforms to: ISO 13007 Specification

Classification codes	As per ISO 13007	Epoxy Tile Grout (2K)
Water Clean ability	80 min	85 min
Setting Time	>120 min	165 min
Shrinkage	<0.25%	0.12%
Sag in vertical joints (2mm to 10mm tile gap)	No Change	No Change
Bond strength	>9.9 MPa	8.0
Compressive strength	>28.2 MPa	32.8 MPa
Tensile strength	>9.9 MPa	7.5
Thermal shock resistance	>3.5 MPa	4.2

Conforms to Standards ISO 13007 - 3

Test Characteristics	As per ISO 9001	Epoxy Tile Grout (2K) ERHF GROUT 118
Abrasion Resistance	<250 mm ³	210 mm ³
Shrinkage	<1.5 mm/m	0.15 mm/m
Water absorption after 240 min	<0.1 g	0.06 g

Chemical Resistance Chart (pending)

Shade Available

Name
<i>Bright White</i>
<i>Ivory</i>
<i>Midnight Black</i>
<i>Sable</i>
<i>Slate Gray</i>
<i>Terracotta</i>
<i>Burgundy</i>
<i>Smoke Grey</i>
<i>Mocha</i>
<i>Inca Gold</i>
<i>Quarry Red</i>

Shelf Life:

Factory packed bag of Magic Bond – Epoxy Tile Grout EG-200(2K) carries a shelf life of 12 months, if stored in cool & dry place.

Limitations:

Grouts for tiles are not replacements for waterproof membranes. When a waterproof membrane is required, use Magic Shield Waterproofing products by Magic rete or any other waterproofing product available in the market.

Do not use in areas with heavy machineries, vehicular traffic, etc. Suitable for joint width between 1mm & 10 mm.

INSTALLATION**Surface Preparation:**

The grout joints must be free from loose particles or any other foreign material prior to commencement of work/application of Magic Bond – Epoxy Tile Grout ERHF GROUT 118 (2K).

Remove the spacers and ensure the joints are completely dry before grouting.

Mixing:

Take Part A – filler pest in 2 parts and 1 -part hardener in a mixing ratio of 6:1. Mix the material for 2-3 minutes to get a consistent color and homogeneous paste. If the mixing is done using a mechanical mixer than the recommended speed would be a slow

(100 rpm). Use the paste within 60 minutes at 25° C. Do not add water to the mix.

Application:

Start filling the joints with Magic Bond – Epoxy Tile Grout (2K) paste using a rubber float, squeegee, or other appropriate tools. Hold the rubber float perpendicular to the surface to remove excess grout.

Fill the grouts into the joints using the rubber float in a continuous manner to avoid any voids.

Any touch-ups should be done within 30-40 minutes of application, if required.

Keep the working area protected for 24 hours after application.

Cleaning:

With the help of a damp sponge wipe off the excess material on the tile surface within 30-60 minutes. Clean it in a circular motion to get optimum results.

Use non-abrasive cloth or smooth pad for cleaning.

Complete the final cleaning within 10-20 minutes from the initial cleaning.

Clean the tools and containers using clean water when the material is still fresh.

Acid cleaning can only be done after 14-21 days of application.

Safety Precautions:

- Avoid contact with eyes
- Use of gloves and goggles is recommended
- Wash your hands before eating/drinking
- Store in dry place

PRODUCT DATA SHEET

BANTEK® tool to clean drill holes

DESCRIPTION

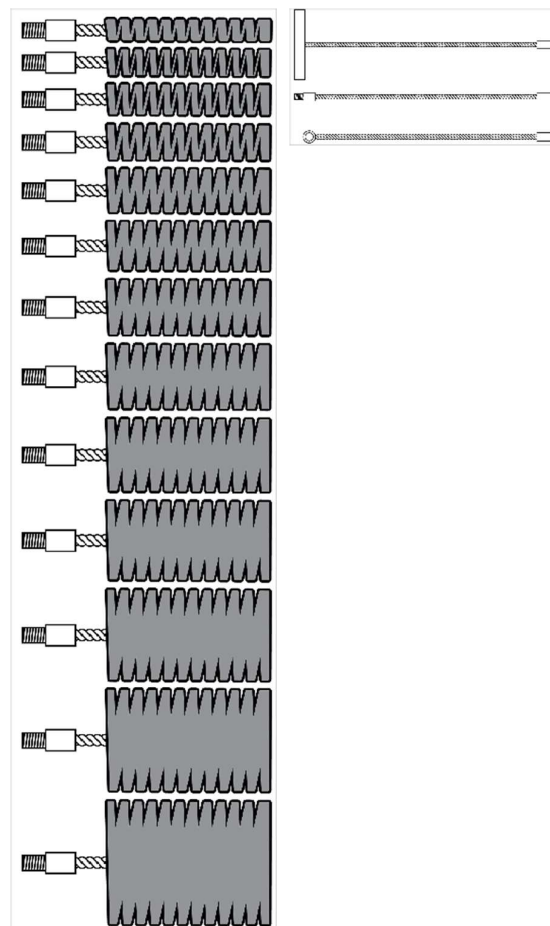
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Bantek PU-108

TECHNICAL SPECIFICATION

www.bantek.co.in

FEATURES:

- Provides perfect insulation
- High strength with lightweight
- Contains no CFC (Chlorofluorocarbons)

*Good dimensional stability and
with stands struck-rural
movements*

- Good durability
- Excellent adhesion to metal, PVC, and wood
- Ease of application by machine as well by manu-

PU-108 is the two-part rigid foam system, When Part A on mixing with Part B at ambient temperature expands to form a light density, hard, rigid, closed cell foam. PUF is available in a wide range of Free Rise density (10- 400 Kg./m³) and pack core density (16-500 kg/m³). The foam prepared from PUF liquid not only have the best thermal properties but, it is the most versatile and fulfils the performance you need. It is highly effective in maintaining the thermal integrity of cold storage utility and maintains the temperature of the system.

APPLICATIONS:

- * **Industria construction is used seal cracks.**
- * **Used to stop water leakage.**
- * Insulating material for Refrigerators, chilling plants, Thermowares, Cold rooms, Solar heater, etc.
- * Thermal insulation to maintain temperature of Ware houses, Storage rooms, Sheds, Poultry/Agricultural Farms, Fish storage tanks.
- * Completely fills all voids and provides structural support to marine vehicles.
- * Accoustic material: good properties for vibration dampening and sound deadening.
- * Duct and Gap filling. Encapsulation of delicate articles
- * Packaging materials

www.bantek.co.in

Office. No- 47/2/2, B No- 16, Shop No- 3, Ajit Hills, Shriram Nagar, Gujarwadi Road, Near Unity Public School, Katraj, Pune, Pune, Maharashtra, 411046

Email. bantek.india@gmail.com

Website. www.bantek.co.in

Phone +91-95612-19085

Bantek PU-108

Bantek PU-108

PROPERTIES:



S.No	Description	Unit	PU-10	PU-40	PU-75	PU-108	PU-450
1.	Free Rise Density (ASTM D-1622-63)	Kg/m ³	10±2	25±2	75±5	120±10	400±10
2.	Pack core Density (ASTM D-1622-63)	Kg/m ³	16±2	40±2	75±5	200-300	500±10
3.	Mixing Ratio (A: B)	PBW	100:100	100:120	100:120	100:120	100:120
4.	Cream Time	Sec	6-7	10-15	15-20	15-20	25-30
5.	Gel Time	Sec	50-60	85-95	50-60	70-80	120-160
6.	Tack Free time	Sec	65-75	105-115	65-75	90-100	200-250
Foam properties:							
1.	Closed Cell Content (ASTM D-2856-65)	%	>50	>95	>95	>95	>95
2.	Thermal Conductivity (ASTM C-518-76)	kcal/Mh°C	NA	<0.022	<0.02	<0.05	<0.05
3.	Compressive Strength (ASTM D-1621-94)	kg/cm ²	NA	>1	>4	>15	>15
4.	Dimensional Stability (ASTM D-2126-94)% Volume Change At -30°C 48 Hrs & at +80°C 48 Hrs	%	<1	<1	<1	<1	<2

SHELF LIFE:

Three (3) months from date of shipment when stored at 25°C in the original sealed packages.

PACKAGE:

Packed in clean 25kg/210kg/250kg Drum.

www.bantek.co.in

OFFICES No - 47/2/2, B No- 16, Shop No- 3, Ajit Hills, Shriram Nagar, Gujarwadi Road, Near Unity Public School, Katraj, Pune, Pune, Maharashtra, 411046
EMAIL**bantek.india@gmail.com**
PHONE+91-95612-19085

BANTEK RLP 110 Rubber liquid paint Weatherproof Exterior Emulsion is a high performance, long lasting exterior paint specially formulated to withstand extreme tropical conditions of high rainfall, humidity and heat.

Top

BANTEK RLP 110 Rubber liquid paint Weatherproof Exterior Emulsion is a 100% modified acrylic, anti-mildew, high performance exterior wall finish. It is based on a UV resistant acrylic binder and lightfast pigment. It has excellent water-repellent properties and excellent anti-microbial properties, inhibiting the growth of fungus and algae and helping to maintain the bright color year after year. We do not add lead, mercury, arsenic chromium and other raw materials containing heavy metals to the manufacturing process.

BANTEK RLP 110 Rubber liquid paint

BANTEK RLP 110 Rubber liquid paint Weatherproof Exterior Emulsion is an exterior wall finish that can be applied over various types of exterior cement plaster. External sealing, asbestos sheet, concrete etc. The product cannot be applied to surfaces/substrates that are subject to continuous seepage moisture.

HOW TO APPLY

BANTEK RLP 110 Rubber liquid paint Weatherproof Exterior Emulsion is a high performance, long lasting exterior paint specially formulated to withstand extreme tropical conditions of high rainfall, humidity and heat.

Top

BANTEK RLP 110 Rubber liquid paint Weatherproof Exterior Emulsion is a 100% modified acrylic, anti-mildew, high performance exterior wall finish. It is based on a UV resistant acrylic binder and lightfast pigment. It has excellent water-repellent properties and excellent anti-microbial properties, inhibiting the growth of fungus and algae and helping to maintain the bright color year after year. We do not add lead, mercury, arsenic chromium and other raw materials containing heavy metals to the manufacturing process.

Asian Paints

BANTEK RLP 110 Rubber liquid paint Weatherproof Exterior Emulsion is an exterior wall finish that can be applied over various types of exterior cement plaster. External sealing, asbestos sheet, concrete etc. The product cannot be applied to surfaces/substrates that are subject to continuous seepage/moisture.

ADDITIONAL INFORMATION

technical data

a) Coverage **

Brushing 1st coat on normal primed masonry surface: 10.5 11.5 sq.mtr/tr (110-130 sq.ft/ltr) 2nd coat: 55 sq.mtr/ltr (55-67 sq.ft/ltr)

Surface drying time 30 minutes

b) drying time

c) Gloss Level / Sheen

d) flash point

(IS 101/1987. Part 1, Section 6)

2 11 at 60°GH

Not Applicable

e) fastness of diluted paint

BANTEK RLP 110

use within 24 hours

Tightly sealed 3 years from date of original manufacture

1) shelf life

container away from direct sunlight and heat

**Actual coverage may differ from quoted coverage due to method of application and factors such as surface condition, roughness and porosity.

Darker bright colors may require additional coats of paint.

safety features

Store container with lid tightly closed in an upright position,

Keep out of reach of children and away from food and drink

Wear eye protection during application. In

rinse immediately with plenty of water and seek medical advice

skin

Together

Of water. Get

Do not breathe vapor or spray. it is

or remains

Nose pad during sanding and surface preparation to avoid dust

breathe.

Product: BANTEK PCP 115 Polymer crack putty



Use information

:

:

:

:

:

:

CFRP Fabric Products:

1. WCF Fabric 200 GSM Bi Directional
2. WCF Fabric 300 GSM Uni Directional
3. WCF Fabric 400 GSM Uni Directional
4. WCF Fabric 600 GSM Uni Directional
5. WCF Fabric 900 GSM Uni Directional

Type Polyacrylonitrile (PAN) based carbon fiber with our own precursor technology
 Polyacrylonitrile (PAN) based carbon fiber with our own precursor technology

Tow Properties (Number of Filaments : 12,000/24,000 for H2550, 12,000 for H3055)

Product Code	SI Unit		US Unit		
	H2550	H3055	H255	H3055	
Filament Diameter	7.0 (mm)	5.0 (mm)	2.8 x 10 ⁻⁴ (in.)	2.0 x 10 ⁻⁴ (in.)	ISO 11567
Tensile Strength	4,900 (MPa)	5,500 (MPa)	711	798 (ksi)	ISO 10618
Specific Tensile Strength	28.1 x 10 ⁴ (m)	31.5 x 10 ⁴ (m)	92.2 x 10 ⁴ (ft)	103.5 x 10 ⁴ (ft)	ISO 10618
Modulus	250 (GPa)	290 (GPa)	36.3	42.1 (Msi)	ISO 10618
Specific Tensile Modulus	14.3 x 10 ⁶ (m)	16.6 x 10 ⁶ (m)	46.9 x 10 ⁶ (ft)	54.4 x 10 ⁶ (ft)	ISO 1889
Strain	2.0 (%)	1.9 (%)	2.0	(%)	ISO 10119
Yield	12k 800	445(g/km)	1,860 (ft/lbs)	3,344 (ft/lbs)	
Fiber Density	24k 1,650 (g/km)	m)N/A	902 (ft/lbs)		
	1.78	1.78 (g/cm ³)	0.064 (lbs/in ³)	N/A	
				0.064 (lbs/in ³)	

Size Content by Mass 1.0 (% w/w)

USES BANTEK WCF10 C may only be used by experienced professionals.

Strengthening of reinforced concrete, masonry, brick-work and timber elements or structures, to increase flexural and shear loading capacity for :

- Improved seismic performance of masonry walls
- Replacing missing steel reinforcement
- Increasing the strength and ductility of columns
- Increasing the loading capacity of structural elements
- Enabling Changes in use/alterations and refurbishment
- Correcting structural design and / or construction defects
- Increasing resistance to seismic movement
- Improving service life and durability

NAME OF ITEM:BC -200	
BRAND NAME:BANTEK WCF 10	
Measurements:	
GSM	200
Width	1000mm
Roll Length	50 Meter
Minimum order quantity	10mtr
Design	Twill/Plain
Thickness	0.28mm
HSN CODE	68151090



PCOMPOSITES-CF FABRIC 200 GSM Twill Weave

Office No- 47/2/2, B No- 16, Shop No- 3, Ajit Hills, Shriram Nagar, Gujarwadi Road,
 Near Unity Public School, Katraj, Pune, Pune, Maharashtra, 411046

[Email bantek.india@gmail.com](mailto:bantek.india@gmail.com)

Website. www.bantek.co.in

Phone+91-95612-19085

PHONE+91-95612-19085



Description:

3K, 2x2 Twill Weave This twill weave is most popular carbon fiber fabric, with a signature appearance that is highly desirable for modern composite parts in the auto, marine, and sporting goods industries. As compared to plain weave counterparts, the twill weave offers greater conformability and delivers a slight edge in strength.

Carbon Fiber Fabric Uni Directional Products:

NAME OF ITEM:BC 300	
BRAND NAME: BANTEK WCF 10	
Measurements:	
GSM	300
Width	500mm
Roll Length	50 Meter
Design	Uni Directional
Thickness	0.32mm
HSN CODE	68151090



PCOMPOSITE- CF Fabric 300 GSM Unidirectional

Office No- 47/2/2, B No- 16, Shop No- 3, Ajit Hills, Shriram Nagar, Gujarwadi Road, Near Unity Public School, Katraj, Pune, Pune, Maharashtra, 411046

[Email bantek.india@gmail.com](mailto:bantek.india@gmail.com)

Website. www.bantek.co.in

Phone+91-95612-19085

NAME OF ITEM:BC 400	
BRAND NAME: BANTEK WCF 10	
Measurements:	
GSM	400
Width	500mm
Roll Length	50 Meter
Design	Uni Directional
Thickness	0.42mm
HSN CODE	68151090



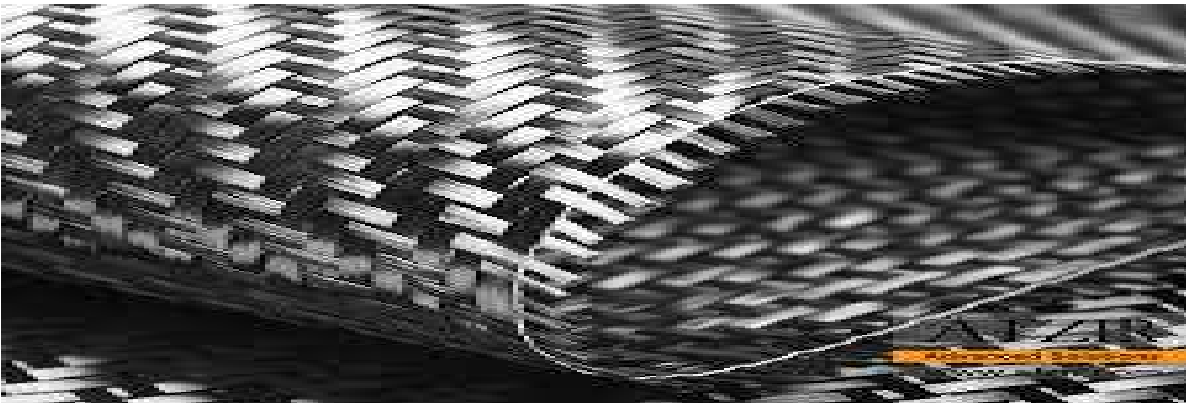
PCOMPOSITES – CF Fabric 400 Unidirectional

Office No- 47/2/2, B No- 16, Shop No- 3, Ajit Hills, Shriram Nagar, Gujarwadi Road,
Near Unity Public School, Katraj, Pune, Pune, Maharashtra, 411046
[Email bantek.india@gmail.com](mailto:bantek.india@gmail.com)
Website. www.bantek.co.in
Phone+91-95612-19085



PCOMPOSITES- CF Fabric 400 GSM Uni directional

NAME OF ITEM:BC -600	
BRAND NAME: BANTEK WCF 10	
Measurements:	
GSM	600
Width	500mm
Roll Length	50 Meter
Design	Uni Directional
Thickness	0.63mm
HSN CODE	68151090



PCOMPOSITES- CF Fabric 600 GSM Uni Directional

Office No- 47/2/2, B No- 16, Shop No- 3, Ajit Hills, Shriram Nagar, Gujarwadi Road,
 Near Unity Public School, Katraj, Pune, Pune, Maharashtra, 411046

[Email bantek.india@gmail.com](mailto:bantek.india@gmail.com)

Website. www.bantek.co.in

Phone+91-95612-19085

NAME OF ITEM:BC -900	
BRAND NAME: BANTEK WCF 10	
Measurements:	
GSM	900
Width	500mm
Roll Length	50 Meter
Design	Uni Directional
Thickness	0.9mm
HSN CODE	68151090



PCOMPOSITES- CF Fabric 900 GSM Uni Directional

Description:

Unidirectional woven high strength, high modulus of elasticity flexible carbon Fiber Fabric. This FRP system is defined as the Carbon Fiber Fabric and resin used to create the composite laminate, all applicable resins use to bound it to the concrete substrate, and all applied coating use to protect the material. Oil field industries.

Office No- 47/2/2, B No- 16, Shop No- 3, Ajit Hills, Shriram Nagar, Gujarwadi Road,
Near Unity Public School, Katraj, Pune, Pune, Maharashtra, 411046

Email bantek.india@gmail.com

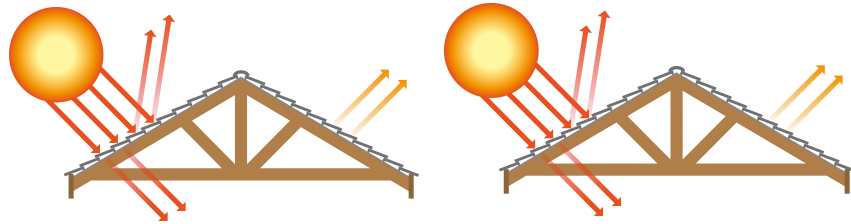
Website. www.bantek.co.in

Phone +91-95612-190



PRODUCT DATA SHEET

Bantek® CoolCoat



SINGLE COMPONENT, ACRYLIC BASED, FLEXIBLE, MICRO FIBRE REINFORCED WATERPROOFING AND HEAT REFLECTIVE COATING SYSTEM.

DESCRIPTION

Bantek® CoolCoat is a flexible, liquid applied, single component, uv and weather resistant, acrylic waterproofing membrane for all types of exposed roof slabs (new and old), terraces (sloped and flat), etc.

Bantek® CoolCoat contains cross-linking polymers, special glass micro fibers, pigments and advanced anti-fungal additive that provides long lasting tough waterproofing membrane.

The high Solar Reflective Index of the membrane serves as a heat reflective surface and reduces heat ingress keeping the interior of the building cooler.

USES

Suitable for all types of :

- Roof slabs (flat and sloped)
- RCC/ asbestos/ lime terraced roofs/ clay tiles etc. after suitable surface preparation and repairs
- Sunshades
- Suitable as a heat reflective coating on bituminous membrane

- Exterior coating for PVC water tanks exposed to direct sunlight to keep the inside water temperature relatively cooler,
- External walls and balconies

CHARACTERISTICS / ADVANTAGES

- Cross linking polymer gives excellent weather resistance and enhances service life.
- High solar reflectance index (SRI) indicates high degree of cooling effect
- Crack-bridging
- High resistance to chloride penetration, hence highly suitable for saline environment.
- Algae and fungi resistant
- Highly flexible and Vapour permeable
- Simple and fast application
- Excellent adhesion to concrete, brickwork, corrugated asbestos, bitumen, asbestos cement sheet and metal decks
- Ultra violet rays and weather resistant
- Eco friendly

PRODUCT INFORMATION

Chemical Base	Acrylic polymer dispersion
Packaging	Bantek® CoolCoat : 10 kg x 1, 5kgx 2, 2kgx 2 Bantek® CoolCoat Primer : 2kgx 2, 1 kg x 2 Bantek® Fab1: Roll size of 50mx 1m (it is the reinforcement of the Coating System to be bought separately)
Colour	White & Grey Shade. Light shades can be achieved with help of quality stainer. Pre-test for over paintability and paint compatibility is recommended.
Shelf Life	12 months if stored properly in undamaged and unopened original sealed pack.
Storage Conditions	Store in a cool and dry conditions.
Density	~ 1.35 kg/l @ 27°C

Solid content by weight	~ 66%
Volatile organic compound (VOC) content	< 10 g/l
Overall Thickness	~ 1- 1.2 mm (with Bantek Fab1)

TECHNICAL INFORMATION

Tensile Strength	1.5 MPa	ASTM D412
Elongation at Break	> 200%	ASTM D412
Adhesion in Peel	> 1.5 MPa (on concrete substrate)	EN 1542
Crack Bridging Ability	Passes upto 3.2mm Width	ASTM C1305
Permeability to Water Vapour	Passes	IS 2645
Water Vapour Transimission	~ 23 g/m ² /24hr	ASTM E96
Water Absorption	< 10% (by Mass)	ASTM D570
Microbiological Resistance	No Algae & Fungal Growth	ASTM D5590
Solar Reflectance Index	102	ASTM E1980

SYSTEM INFORMATION

System Structure

For Roof without Bantek Fab1

Coat	Product	Consumption
Primer Coat	Bantek® CoolCoat Primer	0.3-0.4 kg/m ²
First Coat	Bantek® CoolCoat	0.80 kg/m ²
Second Coat	Bantek® CoolCoat	0.80 kg/m ²
Top Coat	Bantek® CoolCoat Primer	0.06-0.09 kg/m ²

For Roof with Bantek® Fab1

Coat	Product	Consumption
Primer Coat	Bantek® CoolCoat Primer	0.3- 0.4 kg/m ²
First Coat	Bantek® CoolCoat	0.80 kg/m ²
Fabric Reinforcement	Bantek® Fab1	1 m ² /m ²
Second Coat	Bantek® CoolCoat	0.80 kg/m ²
Top Coat	Bantek® CoolCoat Primer	0.06-0.09 kg/m ²

For Walls

Coat	Product	Consumption
Primer Coat	Bantek® CoolCoat Primer	0.3- 0.4 kg/m ²
First Coat	Bantek® CoolCoat	0.5- 0.6 kg/m ²
Second Coat	Bantek® CoolCoat	0.5- 0.6 kg/m ²
Top Coat	Bantek® CoolCoat	0.06- 0.09 kg/m ²

* Total consumption will however depend on the substrate quality.

Dry film thickness	~ 1.0 mm without bantek® Fab1 ~ 1.2 mm with Bantek®Fab1
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APPLICATION INFORMATION

Ambient Air Temperature	+10 °C min/ +45 °C max
Substrate Temperature	+10 °C min/ +45 °C max
Waiting Time / Overcoating	~ 6-8 hours @ +30 °C

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All dust, loose and friable materials and glaze or varnish of tiles must be completely removed by mechanical means. Existing coatings/ membranes have to be inspected, cleaned and mechanically ground to achieve a sound, gripping substrate. In case of bad adhesion to the substrate, existing coatings have to be removed.

In case of application on clay tiles, roughen the surface by grinding and then apply the system.

All uneven surfaces should be properly treated by suitable Bantek® material to get a plain surface.

In case of application on an existing bituminous membrane following procedure has to be followed :

After ensuring that the existing membrane has been cleaned properly, apply the C.S. Primer/ Solvent based or Water based on the surface on which the system is to be applied. Sprinkle a layer of sand on the primed surface immediately and allow it to dry for at least 12 hours. The surface is now ready to take the Bantek Cool Coat System.

APPLICATION

Bantek® CoolCoat is supplied in a single component pack and is in ready to use form. Stir thoroughly using a conventional paint stirrer prior to application.

As a part of the System please prime the substrate with Bantek® CoolCoat Primer

Within 2-4 hours of priming, apply 1st coat of Bantek® CoolCoat by brush or roller. Do not spoil the dry surface while walking on it for application.

Place Bantek® Fab1 over the first coat when it is in tacky condition

Apply the 2nd coat of Bantek® CoolCoat following the same above procedure at suitable time interval of 6-8 hours between the coats.

Finally apply a thin layer of Bantek® CoolCoat Primer. Suitable time interval is 6-8 hours after the second coat dries off.

The above mentioned times may vary depending on temperature, humidity and ventilation at site.

CLEANING OF TOOLS

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

Bantek Construction product

Plot no 17 Ganraj city, near
varad nagari , Bhagatsingh
chowk ,Asarjan , nanded,
maharashtra, India
Mail : bantek.india@gmail.com
www.bantek.co.in



FURTHER DOCUMENTS

Bantek® CoolCoat does not require any special curing but must be protected from rain for at least 12 hours at +30 °C.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Bantek products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Bantek reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



BANTEK ERH 107 Injection Grout



TWO PARTS LOW VISCOSITY EPOXY INJECTION GROUT

Description

Standard Compliance / Specification

- Meets the requirement of BS 6319 & ASTM C 881 standards.

Area of Application

- Permanent bonding solution for concrete cracks.
- Repair of crack concrete areas in floors, walls, tanks & sea walls.
- Injection in to cracks & honey combing in concrete & masonry.

Features & Benefits

- Excellent bond to concrete substrate
- Low viscosity, Deep penetration
- Shrink Free
- Chemical Resistant
- Suitable for damp surface

Method of Application

1 Surface Preparation

- Surface must be strong, dry, clean & free from dust, oil, grease, curing compounds, coatings & other loose materials. For better performance sand blasting, high pressure water jet cleaning, hydrochloric acid etching, mechanical grinding (by pneumatic tools) & wire brushing may be done. In case of acid etching, wash the surface till neutralization.
- Open the cracks & clean by blow of oil free air to ensure complete removal of dust & loose particles.

2 Placing / Fixing of Nozzles

- Install injection port in case of Injection Packer, drilled hole larger than packer size & depth at least 1/3 of structural thickness
- Install injection port along the length of etch crack. The distance between each nipple will depend on width & depth of crack. spacing should be close enough to ensure that the resin penetrates along the cracks till the next point of injection.
 - In case of Injection packer, insert packer to the drill holes and fix tight to the hole
 - In case of Injection nipple, use **BANTEK ERH Injection Grout** to fix nipple to crack surface
- The surface of the cracks in between the nipples should be sealed with **BANTEK ERH Injection Grout** about 30-40 mm wide & 2-3 mm thick band. In case the crack is through & through of a wall or slab, cracks at both the sides must be sealed in similar fashion. First fix the nozzles in the front portion crack, then fix the nozzles at midway points of the front nozzles. This ensures complete filling of grout into crack & surrounding areas.
- The repaired work shall be allowed to cure for at least 8 hrs. at 35 °C, at low temperature of 5-12 °C curing time is extended and the applicator must ensure that the surface sealant has adequately cured prior to continuing the work.
- One end of the injection hose shall be attached to the lowest nipple on vertical cracks or to either end of the horizontal cracks. Alternative methods of resin injection are currently in use; they include the system where injection nipples are bonded to the substrate.

BANTEK ERH 107 Injection Grout

TWO PARTS, LOW VISCOSITY EPOXY INJECTION GROUT

3 Mixing

- Thoroughly mix the entire hardener and base resin contents until the liquids become clear.

4 Injection

- **BANTEK ERH Injection Grout** should be used with standard injection equipment having closed containers. The injection pressure should be at least 0.2 N/mm² (2 bar).
- Only mix sufficient resin that can be used within the pot life of the materials.
- After completion of the injection work, the injection system shall be allowed to cure for 24 hours and shall be left undisturbed for this time

Precautions & Limitations

- Use the material within the pot life expiry period.
- Mix entire pack quantity.
- Do not dilute the material with solvents to reduce the viscosity.
- Ensure that nozzles are fixed properly without any air leakage.

Technical Information

Properties	Specification	Results
Pot life, minutes		40 - 45 @ 30 °C 30 @ 35 °C
Sp. Gravity @ 20 °C		1.02
Initial setting time, Hrs		6
Compressive strength, N/mm ²	BS:6319 : part 2	40 - 1 day 70 - 7 days
Flexural strength, N/mm ²	BS:6319 : part 3	45 - 7 days
Tensile strength, N/mm ²	BS:6319 : part 7	17 - 7 days
Water permeability, %		Nil
Bond strength, kN	ASTM : C 881	Concrete Failure
Viscosity on Brookfield RVT Model@ 30 °C, CPS		200 - 400
Mixing Ratio, by weight		2 : 1 (A:B)

BANTEK ERH 107 Injection Grout

TWO PARTS, LOW VISCOSITY EPOXY INJECTION GROUT

Shelf Life & Storage

- 12 months from the date of manufacturing in unopened condition. store in a cool, dry place & keep away from direct sunlight

Health & Safety Precautions

- As with all chemical products, caution should always be exercised. Protective clothings, such as gloves and goggles, should be worn.
- Treat any contact to the skin or eyes with fresh water immediately. should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.
- Reseal all containers after use and ensure product is stored as instructed.
- Do not smoke when handling this product.
- Do not inhale.

Packing

- 3 kg. Set (A+B)

Other Product Categories available

- Waterproofing
- Sealants
- Flooring
- Tiling & Adhesive
- ▣ Repairing System
- ▣ Admixtures & Concrete Production
- ▣ Coating & Paints
- ▣ Grout & Anchors



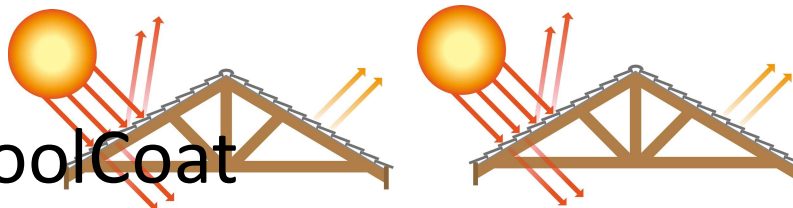
BANTEK CONSTRUCTION PRODUCTS

Head Office : Plot no 17 Ganraj city, near varad nagari , Bhagatsinghchowk
Asarjan , nanded, Maharashtra, India

Head Office telephone: 020-65292323 email: bantek.india@gmail.com

PRODUCT DATA SHEET

BANTEK® PRL 104. CoolCoat



SINGLE COMPONENT, ACRYLIC BASED, FLEXIBLE, MICRO FIBRE REINFORCED WATERPROOFING AND HEAT REFLECTIVE COATING SYSTEM.

DESCRIPTION

BANTEK® CoolCoat is a flexible, liquid applied, single component, uv and weather resistant, acrylic waterproofing membrane for all types of exposed roof slabs (new and old), terraces (sloped and flat), etc. BANTEK® CoolCoat contains cross-linking polymers, special glass micro fibers, pigments and advanced anti-fungal additive that provides long lasting tough waterproofing membrane. The high Solar Reflective Index of the membrane serves as a heat reflective surface and reduces heat ingress keeping the interior of the building cooler.

USES

- Suitable for all types of :
- Roof slabs (flat and sloped)
 - RCC/ asbestos/ lime terraced roofs/ clay tiles etc. after suitable surface preparation and repairs
 - Sunshades
 - Suitable as a heat reflective coating on bituminous membrane

- Exterior coating for PVC water tanks exposed to direct sunlight to keep the inside water temperature relatively cooler,
- External walls and balconies

CHARACTERISTICS / ADVANTAGES

- Cross linking polymer gives excellent weather resistance and enhances service life.
- High solar reflectance index (SRI) indicates high degree of cooling effect
- Crack-bridging
- High resistance to chloride penetration, hence highly suitable for saline environment.
- Algae and fungi resistant
- Highly flexible and Vapour permeable
- Simple and fast application
- Excellent adhesion to concrete, brickwork, corrugated asbestos, bitumen, asbestos cement sheet and metal decks
- Ultra violet rays and weather resistant
- Eco friendly

PRODUCT INFORMATION

Chemical Base	Acrylic polymer dispersion
Packaging	BANTEK® CoolCoat : 10 kg x 1, 5kgx 2, 2kgx 2 BANTEK® CoolCoat Primer : 2kgx 2, 1 kg x 2 Bantek® Fab1: Roll size of 50mx 1m (it is the reinforcement of the Coating System to be bought separately)
Colour	White & Grey Shade. Light shades can be achieved with help of quality stainer. Pre-test for over paintability and paint compatibility is recommended.
Shelf Life	12 months if stored properly in undamaged and unopened original sealed pack.
Storage Conditions	Store in a cool and dry conditions.
Density	~ 1.35 kg/l @ 27°C

Solid content by weight	~ 66%
Volatile organic compound (VOC) content	< 10 g/l
Overall Thickness	~ 1- 1.2 mm (with <u>BANTEK</u> Fab1)

TECHNICAL INFORMATION

Tensile Strength	1.5 MPa	ASTM D412
Elongation at Break	> 200%	ASTM D412
Adhesion in Peel	> 1.5 MPa (on concrete substrate)	EN 1542
Crack Bridging Ability	Passes upto 3.2mm Width	ASTM C1305
Permeability to Water Vapour	Passes	IS 2645
Water Vapour Transimission	~ 23 g/m ² /24hr	ASTM E96
Water Absorption	< 10% (by Mass)	ASTM D570
Microbiological Resistance	No Algae & Fungal Growth	ASTM D5590
Solar Reflectance Index	102	ASTM E1980

SYSTEM INFORMATION

System Structure

For Roof without BANTEK Fab1

Coat	Product	Consumption
Primer Coat	BANTEK® CoolCoat Primer	0.3-0.4 kg/m ²
First Coat	BANTEK® CoolCoat	0.80 kg/m ²
Second Coat	BANTEK® CoolCoat	0.80 kg/m ²
Top Coat	BANTEK® CoolCoat Primer	0.06-0.09 kg/m ²

For Roof with BANTEK k® Fab1

Coat	Product	Consumption
Primer Coat	BANTEK® CoolCoat Primer	0.3- 0.4 kg/m ²
First Coat	BANTEK® CoolCoat	0.80 kg/m ²
Fabric Reinforcement	BANTEK® Fab1	1 m ² /m ²
Second Coat	BANTEK® CoolCoat	0.80 kg/m ²
Top Coat	BANTEK® CoolCoat Primer	0.06-0.09 kg/m ²

For Walls

Coat	Product	Consumption
Primer Coat	BANTEK® CoolCoat Primer	0.3- 0.4 kg/m ²
First Coat	BANTEK® CoolCoat	0.5- 0.6 kg/m ²
Second Coat	BANTEK® CoolCoat	0.5- 0.6 kg/m ²
Top Coat	BANTEK® CoolCoat	0.06- 0.09 kg/m ²

* Total consumption will however depend on the substrate quality.

Dry film thickness	~ 1.0 mm without <u>BANTEK</u> ® Fab1 ~ 1.2 mm with <u>BANTEK</u> ® Fab1
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APPLICATION INFORMATION

Ambient Air Temperature	+10 °C min/ +45 °C max
Substrate Temperature	+10 °C min/ +45 °C max
Waiting Time / Overcoating	~ 6-8 hours @ +30 °C

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All dust, loose and friable materials and glaze or varnish of tiles must be completely removed by mechanical means. Existing coatings/ membranes have to be inspected, cleaned and mechanically ground to achieve a sound, gripping substrate. In case of bad adhesion to the substrate, existing coatings have to be removed.

In case of application on clay tiles, roughen the surface by grinding and then apply the system. All uneven surfaces should be properly treated by suitable BANTEK® material to get a plain surface.

In case of application on an existing bituminous membrane following procedure has to be followed :

After ensuring that the existing membrane has been cleaned properly, apply the C.S. Primer/ Solvent based or Water based on the surface on which the system is to be applied. Sprinkle a layer of sand on the primed surface immediately and allow it to dry for atleast 12 hours. The surface is now ready to take the Bantek Cool Coat System.

APPLICATION

BANTEK® CoolCoat is supplied in a single component pack and is in ready to use form. Stir thoroughly using a conventional paint stirrer prior to application.

As a part of the System please prime the substrate with **BANTEK**® CoolCoat Primer

Within 2-4 hours of priming, apply 1st coat of **BANTEK**® CoolCoat by brush or roller. Do not spoil the dry surface while walking on it for application.

Place **BANTEK**® Fab1 over the first coat when it is in tacky condition

Apply the 2nd coat of Bantek® CoolCoat following the same above procedure at suitable time interval of 6-8 hours between the coats.

Finally apply a thin layer of **BANTEK**® CoolCoat Primer. Suitable time interval is 6-8 hours after the second coat dries off.

The above mentioned times may vary depending on temperature, humidity and ventilation at site.

CLEANING OF TOOLS

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

BANTEK Construction

productPlot no 17 Ganraj
city, near varad nagari ,
Bhagatsingh chowk ,Asarjan ,
nanded, maharashtra, India
Mail : bantek.india@gmail.com
www.bantek.co.in



FURTHER DOCUMENTS

BANTEK® CoolCoat does not require any special curing but must be protected from rain for at least 12 hours at +30 °C.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of **BANTEK** products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. **BANTEK** reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product DataSheet for the product concerned, copies of which will be supplied on request.



BANTEK CP ERHP 119

PRODUCT DATA SHEET

TWO PART EPOXY RESIN, DESIGNED FOR STRUCTURAL STRENGTHENING APPLICATIONS AS PART OF BANTEK CP. STRENGTHENING SYSTEM

DESCRIPTION

BANTEK CP ERHP119 IN is a two part, thixotropic epoxy based impregnating resin / adhesive, designed for structural strengthening applications using dry or wet Application process along with BANTEK Wrap® fabrics.

USES

BANTEK CP ERHP119 ®-330 IN may only be used by experienced professional.

BANTEK CP ERHP119 IN is used as:

- Impregnation resin for BANTEK Wrap® fabric reinforcement for the dry application method
- Primer resin for the wet application system
- Structural adhesive for bonding BANTEK Wrap® to even surfaces

CHARACTERISTICS / ADVANTAGES

- Easy mix and application by trowel and impregnation roller
- Manufactured for manual saturation methods
- Excellent application behavior to vertical and over-head surfaces
- Good adhesion to many substrates
- High mechanical properties
- No separate primer required

PRODUCT INFORMATION

Chemical Base	Epoxy resin	
Packaging	Pre-batched unit (A+B)	3 kg
	Part A	2 kg plastic container
	Part B	1 kg plastic container
Color	Part A	White paste
	Part B	Black paste
	Part A+B mixed	Grey
Shelf Life	12 months from date of production	
Storage Conditions	Store properly in original unopened, sealed and undamaged packaging in dry conditions at temperatures between +5°C and +45°C. Protect from direct sunlight.	
Density	1.4 ± 0.1 kg/liter (Part A+B mixed) (at +30°C)	
Viscosity	~39900 Cps (at +30°C)	

TECHNICAL INFORMATION

Modulus of Elasticity in Flexure	~2800 N/mm ² (6 days at +30°C)	(ISO 9001)
Tensile Strength	≥ 30 N/mm ² (6 days at +30°C)	(ISO 9001)
Modulus of Elasticity in Tension	~3500 N/mm ² (6 days at +30°C)	(ISO 9001)
Elongation at Break	0.9% (6 days at +30°C)	(ISO 9001)
Tensile Adhesion Strength	≥ 10 N/mm ² (after 1 day on concrete at 30° C) (Concrete fail-urea)	
Coefficient of Thermal Expansion	4.5 x 10 ⁻⁵ per °C (-10°C to +45°C)	
Thermal Compatibility	+45°C continuous exposure	
Chemical Resistance	The product is not suitable for chemical exposure.	
Heat Deflection Temperature	+61°C (after 6 days at +30°C)	
Service Temperature	0°C min / +45°C max.	

SYSTEM INFORMATION

System Structure	<u>Substrate primer</u> BANTEK CP ERHP119 IN <u>Impregnating / laminating resin</u> BANTEK CP ERHP119 IN <u>Structural strengthening fabric</u> BANTEK Wrap® type to suit requirements
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APPLICATION INFORMATION

Mixing Ratio	Part, A: Part B = 2: 1 (by weight) When using bulk material, the exact mixing ratio must be safeguarded by accurately weighing and dosing each component.
Consumption	This will be dependent on the roughness of the substrate and the type of fabric to be impregnated. See respective BANTEK Wrap® fabric Product Data Sheet and "Method Statement for BANTEK Wrap® dry Application". Guide: 1 - 2 kg/m ²
Ambient Air Temperature	+10°C min. / +40°C max
Dew Point	Beware of condensation! Substrate temperature during application must be at least 3°C above dewpoint.
Substrate Temperature	+10°C min. / +40°C max
Substrate Moisture Content	≤ 4% (Test method: BANTEK ® meter)
Pot Life	~25 minutes (100g mass at +30°C) parts with the mixing of both parts (resin and hardener). At low ambient temperature pot life will be extended, at elevated temperatures this will be reduced. The higher the quantity of material mixed, the shorter the pot life to achieve a longer pot life at high temperatures the mixed material may be divided into smaller units or both parts may be cooled before mixing.
Open Time	~50 minutes (100g mass at +30°C)
Waiting Time / Over coating	6 hrs. min. (at +30°C of Substrate Temperature) Cured resin older than 7 days has to be degreased with BANTEK® Calm Clean- err and gently grinded with a sandpaper before coating. Times are approximate and will be affected by changing ambient Conditions

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate must be sound and of sufficient tensile strength to provide a minimum pull off strength of 1.0N/mm² or as per the requirements of the design EC / ISO- confiscation The surface must be dry and free of all con-dominants such as oil, grease, coatings and surface treatments etc. Please refer to "Method Statement for BANTEK CP ERHP119 dryapplication".

SUBSTRATE PREPARATION

- Concrete and masonry substrates must be prepared mechanically using abrasive blast cleaning or grinding equipment, to remove cement laitance, loose and friable material to achieve a profiled open textured surface.
- Timber substrates must be planed or sanded.
- All dust, loose and friable material must be completely removed from all surfaces before application of the BANTEK CP ERHP119 IN preferably by brush and industrial vacuum cleaner. Weak concrete/masonry must be removed and surface defects such as honey-combed areas, blowholes and voids must be fully exposed.
- Repairs to substrate, filling of blowholes/voids and surface leveling must be carried out using IN and BANTEK CP ERHP119 IN adhesive.
- Bond tests must be carried out to ensure substrate preparation is adequate.
- Inject cracks wider than 0.25 mm with BANTEK ERH107 or other suitable BANTEK CP ERHP119 @ injection resin.
- Please refer to "Method Statement for BANTEK Wrap® dry

application".

MIXING

Mix parts A+B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (max. 310 rpm) until the material becomes smooth in consistency and a uniform grey color. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approx. 1 minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its pot life.

APPLICATION METHOD / TOOLS

Please refer to "Method Statement for BANTEK Wrap® dryapplication".

CLEANING OF TOOLS

Clean all equipment immediately with BANTEK® Colm Cleaner. Cured material can only be mechanically re-moved.

LIMITATIONS

- BANTEK CP ERHP119 IN may only be used by experienced professionals.
- BANTEK CP ERHP119 IN must be protected from rain for at least 24 hours after application.
- Ensure placement of fabric and laminating with rollers takes place within open time.
- BANTEK CP ERHP119 fabric must be coated with a cement ties overlay or coating for aesthetic and/or protect-vie purposes. The over coating system selection is dependent on the exposure and the project specific requirements. For additional UV light protection in exposed areas use BANTEK CP ERHP119 550W IN or BANTEK CP ERHP119 PU UR
- At low temperatures and / or high relative humidity, a tacky residue (blush) may form on the surface of the cured BANTEK CP ERHP119 IN epoxy. If an additional layer of fabric, or a coating is to be applied onto the cured epoxy, this residue must first be removed to ensure adequate bond. The residue can be removed with water. In both cases, the surface must be wiped dry prior to application of the next layer or coating.
- For application in cold or hot conditions pre-condition material for 24 hours in temperature controlled storage facilities to improve mixing, application and pot life limits.
- The number of additional fabric layers applied wet on wet must be closely controlled to avoid creeping, creasing or slippage of the fabric during curing of BANTEK CP ERHP119 IN. The number of layers will be dependent on the type of BANTEK Wrap® fabric used and the ambient climate conditions.
- For further information on over coating, number of layers or creep, please consult a structural engineer for calculations and see also the "Method Statement for BANTEK Wrap® dry application".
- BANTEK CP ERHP119 @ resins are formulated to have low creep under permanent loading. However due to the creep behavior of all polymer materials under load, the long term structural design load must account for creep. Generally, the long term structural design load must be lower than 20-25% of the failure load. Please consult a structural engineer for load calculations for your specific application.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond

- Impregnation resin for BANTEK Wrap® fabric reinforce-ment for the dry application method
- Primer resin for the wet application system
- Structural adhesive for bonding BANTEK Wrap® to evensurfaces

PRODUCT INFORMATION

Chemical Base	Epoxy resin	
Packaging	Pre-batched unit (A+B)	3 kg
	Part A	2 kg plastic container
	Part B	1 kg plastic container
Color	Part A	White paste
	Part B	Black paste
	Part A+B mixed	Grey
Shelf Life	12 months from date of production	
Storage Conditions	Store properly in original unopened, sealed and undamaged packaging in dry conditions at temperatures between +5°C and +45°C. Protect from direct sunlight.	
Density	1.4 ± 0.1 kg/liter (Part A+B mixed) (at +30°C)	
Viscosity	~39900 Cps (at +30°C)	

Sr.No	Size	Box/Qty	LSP/PC (5.8)	LSP/PC (8.8)	LSP/PC (A4)
Chemical Anchor Stud (Round Head/Hex Head_ with Chijal Point_ Nut & Washer Zinc Coated)					
1	Chemical Anchor M08x110	30	52	65	81
2	Chemical Anchor M10x115	30	70	88	109
3	Chemical Anchor M10x130	30	78	100	125
4	Chemical Anchor M10x160	30	93	123	153
5	Chemical Anchor M12x110	20	105	131	164
6	Chemical Anchor M12x120	20	108	138	172
7	Chemical Anchor M12x150	20	125	156	195
8	Chemical Anchor M12x160	20	128	163	203
9	Chemical Anchor M12x220	10	145	188	234
10	Chemical Anchor M12x255	10	160	198	247
11	Chemical Anchor M12x300	10	182	228	284
12	Chemical Anchor M16x150	10	180	225	281
13	Chemical Anchor M16x165	10	184	231	289
14	Chemical Anchor M16x185	10	204	256	320
15	Chemical Anchor M16x200	10	210	263	328
16	Chemical Anchor M16x250	5	264	331	414
17	Chemical Anchor M16x300	5	314	394	492
18	Chemical Anchor M16x500	5	675	846	1058
19	Chemical Anchor M20x180	5	295	369	461
20	Chemical Anchor M20x200	5	309	388	484
21	Chemical Anchor M20x240	5	335	419	523
22	Chemical Anchor M20x260	5	344	431	539
23	Chemical Anchor M20x300	5	570	713	891
24	Chemical Anchor M20x350	5	588	738	922
25	Chemical Anchor M20x400	5	720	900	1125
26	Chemical Anchor M20x500	5	1015	1273	1591
27	Chemical Anchor M24x300	5	724	906	1133
28	Chemical Anchor M24x450	5	1160	1450	1813
29	Chemical Anchor M30x250	5	1050	1313	1641
30	Chemical Anchor M30x500	5	2050	2563	3203

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Sr.No				
1	Mechanical Anchor M6x50	2400	6.50	14
2	Mechanical Anchor M8x75	800	8.50	18
3	Mechanical Anchor M10x75	560	11.50	24
4	Mechanical Anchor M10x100	480	14.50	30
5	Mechanical Anchor M10x125	400	16.50	34
6	Mechanical Anchor M10x150	360	19.50	40
7	Mechanical Anchor M12x75	400	16.50	35
8	Mechanical Anchor M12x100	320	18.50	38
9	Mechanical Anchor M12x125	320	24.50	50
10	Mechanical Anchor M12x150	240	27.50	57
11	Mechanical Anchor M12x200	200	35.50	72
12	Mechanical Anchor M16x100	200	37.50	76
13	Mechanical Anchor M16x125	160	43.50	88
14	Mechanical Anchor M16x150	120	50.50	102
15	Mechanical Anchor M16x200	120	67.50	137
16	Mechanical Anchor M16x250	80	83.50	168
17	Mechanical Anchor M20x150	96	78.50	159
18	Mechanical Anchor M20x200	80	99.50	200
19	Mechanical Anchor M20x250	48	129.50	260
20	Mechanical Anchor M20x300	40	191.50	384
21	Mechanical Anchor M24x150	60	173.50	349
22	Mechanical Anchor M24x200	48	227.50	456
23	Mechanical Anchor M24x250	36	275.50	552
24	Mechanical Anchor M24x300	24	299.50	600

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