

Teknofast

Water Based, Fast Setting Polymer Modified Bitumen Waterproofing Material



Product Description Teknofast is water based, fast setting polymer modified bitumen waterproofing material.

Application Areas

- Waterproofing of shotcrete that applied on bored piles.
- To provide waterproofing of lean concrete surfaces that after application rebar fastening process.
- Waterproofing of curtain and retaining walls, walls of basements,
- Waterproofing of elevator shafts
- For watertightness gross concrete ,play wood and under ground basements
- In the case of waterproof-ng highways,metro and railways tunnel
- Waterproofing of water channels and water pipe
- In the case of need root resistance waterproofing application.
- Waterproofing of building terraces

Features and Advantages

- Due to antibacterial affect can be used at the waterproofing of hotels, hospitals construction.
- It is suitable for isolation water reservoir that constructed on the soil
- For exterior and interior waterproofing application of chemical waste storage tank
- It is ecofriend, not harms the enviroment
- The product has fast drying and fast setting properties approximately 5 second
- High application productivity nearly 1000 m2/day
- Teknofast is ready for use, it does not need extra curative additive
- Teknofast has extremely high elongation by 2000 %
- The cured film has resistance to plant root
- It has self repair properties,against deformation
- It can be used at any moist surface
- Water vapour permable
- Durable aganist fire
- No need for chamfer
- Appropriate with the surfaces that contact with the soil
- Radon gas proof
- In sunny wheather condition after 3 hours it serves to light pedeastrian traffic.

Application Instruction

Surface Preparation: The surface to be applied Teknofast must be clean , slightly humid or without water lake. The surfaces to be applied must be without cement residue ,the derbis must be repaired. If there are water pressure from negative and efflorescence ,the product should not be applied.

Application: Teknofast is applied by two had spraying machine. It have two nozzle one of them sprays Teknofast bitumen side and the second one sprays the hardener/accelarator so two of them combined out of the nozzles and seamles mebrane forms. Teknofast and hardener ratio is 10:1 by volume. Teknofast bitumen side must be mixed at last 5 min before spraying. The hardener is solid must dissolved at the clean water. Hardener concentration water:hardener is 9:1 by weight. To obtain 4mm dry thickness approximate consumption is 6,5 kg/m². Complete dry is depend on weather condition may vary between 5-7 days. In any confusion please contact with Tekno Construction Chemicals expert.

Priming: In the case of using primer, the accelarator part or valve should be switched off and only bitumen emulsion part should be sprayed out aproximately 200 g/m². The suitable drying time for primer at 23°C is one hour.

Application Notes/ Restrictions

- During the application process personel protective clothes and protective gogless should be used
 - The Spraying process must be repeated via spray gun on vertical and horizontal directions until the desired final film thickness.
 - Teknofast can be applied on moisty surfaces, not on the puddle water.
 - Teknofast is ready for use, it should not be diluted. it should be avoided to add some metarilas extarnally
 - In the case of rainy, frost weather condition the application must be postponed
 - After the completion of curtain wall insulation at under ground application, the coated surface must be protected by extruded polystyrene boards, drainage sheet etc.
 - The refilled aggregate must be less than 40 mm diameter.
 - Liquid product must be protected against direct sun light, heat, must be stored at between (10°C)- (35°C) under closed areas
 - Teknofast must be protected against frost,
 - Due to storage condition , shelf life of the product is 12 month.
- Packaging : 1000 kg. and 200 kg

Technical Information

TEST	METHOD	UNIT	TOLERANCE	RESULT
Water Resistance	TS EN 15817	-	-	Pas
Flexiblity at Low Temperature (0°C)	TS EN 15813	-	-	Pas
Cold Bending	TS EN 1109	-	-	- 20 °C
Dimensional Stabilitiy at High Temperature (70 °C)	TS EN 15818	-	-	Pas
Resistance to compression	TS EN 15815	class	-	C2B
Reduction of layer thickness when fully dried	TS EN 15819	%	≤ 50	35
Reaction to fire	TS EN 13501-1	class	-	E
Watertightness	TS EN 15820	class	-	W2B
Crack bridging ability	TS EN 15812	class	-	CB 2
Resistance to rain	TS EN 15816	class	-	R2
Density	TS 132	gr/cm ³	±0,02	1,15
Solid Contnet	TS 132	%	Min.	60
Viscosity (23 °C)	ASTM D 2196-99	cP	± 100	200
Tensile Strenght	ASTM D 412 & EN ISO 527-3	%	-	> 1800
Elongation	ASTM D 412 & EN ISO 527-3	N/mm ²	± 0,12	0,5
Application Temperature	-	°C	-	(+10) - (+40)
Hazardous Materailas	-	-	-	Nope

* For the precuation must be taken check the product material safety data sheet.

* the producer has right to modify product specification

