



Bon Malat (Dry Mortar)

The prepared dry mortar or the pre-mixed dry mortar includes 1- all kinds of internal and external building plasters (for the facade), 2- all kinds of masonry mortars (for the installation of bricks, cement blocks, plaster blocks, etc., 3- the mortars for the installation of wall and floor tiles, 4- the mortars for the substructure of the walls, roof, and lining, and 5- the mortar for the installation of the partitions. These are the light cement blocks that are mixed and produce in a dry powder in the factory with the special equipment for gauging, a mixture of raw materials including limestone, cement, and the additives based on a definite formula (pre-determined) with the accurate control of the proportion of the material weights and the assessment of its quality; at the end, the product is packed with the brand name of Bon Malat and distributed all over the country.





Bon Malat (Dry Mortar)

Lahti, Finland company (Lahti precision) is one of the oldest and most successful active companies' in equipment production and dry mortars production lines field in the world. This company starts its work since year 1918, until now it has offered all its product and hardware's in all continent. a century experience of this company has proven its stability and technical strength. Equipment, facilities and services has been provided by Lahti company follows the principles of the life cycle by saving energy and optimal use of valuable raw materials.

Bonyad Beton Esfahan company has established a unique factory of prepared dry mortar in the province of Semnan and the industrial zone of Mahdishahr for the promotion and improvement of the methods of industrial production of building materials by the technology of Lahti, Finland, and the updated global standards. The modern produced materials by this technology have so many benefits including the increment of the execution speed, the decrement of the execution costs, high strength and stability against the surrounding conditions, the increment of the building's and industrial projects' efficient age, as well as the easiness in the application, transportation, and movement of the materials.





Bon Malat productions in a glance

- 1. Masonry mortar
- 2. Mortar for façade slurry
- 3. Tile ceramic and stone slurry ready mortar
- 4. Thin Joint Mortar
- 5. Single Coat Mortar
- 6. Under Coat Mortar
- 7. Coated lining Heblex block
- 8. Gray fibrous coated
- 9. Colorful external façade
- 10. Tile adhesive
- 11.Porcelain tile adhesive
- 12. Slab Tile adhesive, porcelain plus
- 13. Tile Grout
- 14.Repair Mortar
- 15. Joint Treatment & Skin Coating Mortar
- 16. Industrial grout
- 17. Two component Waterproofing



Products list

Number	Commodity code	Weight and kind of the packing (Kg)	Commodity description	Consuming case
1	M100	35 kg Pocket	Masonry mortar	Adhesion of all kinds of walling materials (blocks, tympanum, pottery ware, brick, mosaic)
2	M200	35 kg Pocket	Mortar for façade slurry	Installation of any brick tiles
3	M300	35 kg Pocket	Tile ceramic and stone slurry ready mortar	Installation of any tiles ceramics and stones
4	Gray TL 350 White TL 360	35kg Pocket	Thin Joint Mortar	Adhesion of the aerated concrete blocks
5	Gray RF 406 White RF 506	35 kg Pocket	Single Coat Mortar	As a thin layer lining on the walls and the final phase in and out of the building
6	Gray R 415 White R 515	35 kg Pocket	Under Coat Mortar	As the lining and preparing the surface for the execution of the final phase in or out of the building
7	White R 509 Gray R 409	35 kg Pocket	Coated lining Heblex block	As a lining on the wall of the Heblex block in or out of the building
8	R 420	35 kg Pocket	Gray fibrous coated	As a lining on the wire lath and the cement repaired surfaces
9	Colorful TPC	35 kg Pocket	Colorful external façade	As the final façade of the traditional thatch on the cement surfaces
12	Gray TL 250	25 kg Pocket 8 Bucket	Floor tile adhesive with the adhesive strength of 0.5 to 0.8 MPa	Adhesion of all kinds of tiles and ceramic to the floor surface in or out of the building C1E
10	Gray TL 300 White TL 310	25 kg Pocket 8 Bucket	tile adhesive	Adhesion of all kinds of tiles and non- porcelain ceramic to the floor and wall surface in or out of the building C1E



Products list

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Number C	Commodity code	Weight and kind of the	Commodity	
		packing	description	Consuming case
		(Kg)		
	Gray TI 205	25 kg		Adhesion of all kinds of porcelain
11	Gray TL 305	Pocket	Porcelain tile adhesive	ceramic and adhesion of floor and wall
	White TL 310	8 Bucket		tile up to 100*100 cm ² C2T
				Adhesion of all kinds of porcelain
		25 kg	Slab Tile adhesive,	ceramic and adhesion of floor and wall
12	White TL 318	Pocket	porcelain plus	tile with more than 100*100 cm ² area,
		TOCKET		adhesion of all kinds of natural and
				artificial stones C2TS1
	White TL 320			Filling the gaps between the tiles and
13	Colorful TLC	25kg Pocket	Tile Grout	ceramics installed on the floor and wall
	Coloriul TEC			in or out of the building
				Very high adhesion and strength and
14	Gray RM 400	35kg Pocket	Repair Mortar	low permeability and long durability on
				the concrete with 30 mm thickness, for
				repairing concrete building
15	Gray TP 202	35 kg Pocket	Joint Treatment &	Proper for caulking and narrow mastic
	White TP 212	**************************************	Skin Coating Mortar	cement panels of aqua panel
		100000000000000000000000000000000000000	NAME AND THE ATTENDANCE.	They are applicable for avoiding the
16	GM 100	35 kg Pocket	Industrial Grout	voids under the base plate due to their
				high fluidity
	2-component Gray WP			Proper waterproof blocking system with
17	100	25 kg Pocket	2-component	excellent adhesion to the concrete
	2-component white WP	10 Gallons	Waterproofing	surfaces
	200			





Masonry Mortar M100



Product introduction

Masonry mortar is a cement-based mortar with high durability and easy application using for the adhesion of all kinds of bricks, expanded clay aggregate cement, and pottery blocks, septum or murals, and paving the floor or mosaic.



Construction and preparing method:

Mix the pocket contents in a mixer along with 5.5 L of clean water for 6 to 8 minutes. The consuming period of the prepared mortar is about two hours in the ambient temperature.



Consuming method:

Cover the whole surface of clean and dust-free materials with the mortar. Remove the extra mortar between two rows of materials immediately. Spread out a layer of 2 cm thickness on the surface with a trowel. The executed mortar will gain ultimate strength after a month.



	Gray cement-type 2
components	Granulated lime aggregates with the maximum size of 3mm
	Additives for water maintenance and improving the adhesion
Density	1850 gr/L
Layer thickness	3.5 to 5 cm
Consuming amount	Depends on the distance from the brick tiles ,ceramic and stone to the wall
28-day compressive strength	More than 10 N/mm ²







Aerated concrete block adhesive •

TL350- TL360



Product introduction

Bon Malat Thin Joint Mortar is for the adhesion of the light autoclaved aerated concrete blocks (AAC).



Construction and preparing method

Mix the pocket contents in a mixer along with 9 L of clean water, and after reaching a uniform concentration wait for about ten minutes (curing time). After this period, the mortar will be mixed again for a short time (about 15 seconds).



Consuming method

Spread out the prepared mortar on a block of 3 to 5 mm thickness. Then, create some grooves on the layer with a scalloped float. Adjust the arranged blocks from above with a rubber hammer.



	Gray or white cement
components	Granulated lime aggregates with the maximum size of 0.6 mm
	Additives for water maintenance and improving the adhesion
Wet Density	1600 gr/L
Layer thickness	3-5 mm
Consuming amount	About 22 Kg for 1 m ³ setting
28-day compressive strength	More than 7 N/mm ²
Adhesion strength	More than 0.1 N/mm ²





Single Coat Mortar

RF406-RF506



Product introduction

Bon Malat Single Coat Mortar is a cement-based plaster applied in one layer and has the role of plastering and lining simultaneously used both manually and mechanically. Common one-layer plaster can be used on the internal walls of the buildings of pottery, brick, cement blocks, and AAC blocks used for the elevator shafts, parking lots, and the other surfaces that don't need façade-making.



Construction and preparing method:

Mix the pocket contents in a mixer along with 6.5 L of clean water for 6 to 8 minutes. The consuming period of the prepared mortar is about two hours in the ambient temperature.



Consuming method:

Execute a 1015- mm layer of this mortar on a clean and free of oily, sticky, and rubbish materials on the underwork surface. Moisturize the performed layer with a spray after 24 hours.

	Gray cement/ white cement
	Granulated lime aggregates with the maximum size of 1.2 mm
components	Additives for water maintenance, workability, and water absorption
	decrement
Wet Density	1700 gr/L
Color	White, gray, and colorful
Consuming amount	30 Kg for 1 m ³ setting for the thickness of 15 mm
Capillary	w1 class according to standard 706-1
attraction	





Under Coat Mortar Coated lining Heblex block Gray fibrous R415-R515-R509-R409-R420



Product introduction

Cement-based lining mortar is for the lining of the internal and external façade of the buildings and can be used manually and mechanically. R 415 and R 515 products are for the use on the pottery surfaces, bricks, and cement and concrete blocks; R 509 is usable on the light aerated concrete blocks, and R 420 is for the repairing of the old plastered surfaces, disturbed surfaces, and rabitz.

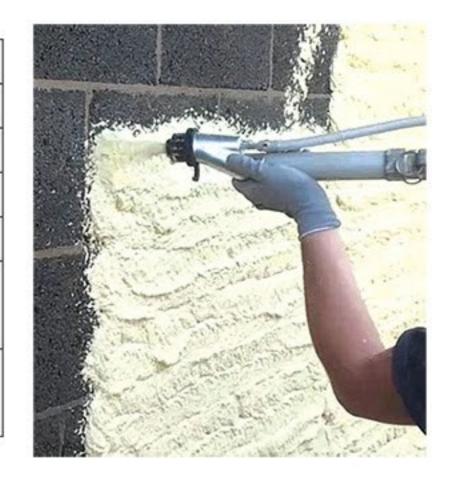


Construction and preparing method:

Moisturize the clean and free of oily, sticky, and rubbish materials on the underwork surface a little, and make a chrome-grading to reach a smooth surface. Using throwing with trowel or mortar sprayer, execute a 30 mm thick layer on the surface underwork. In the case of need for more thickness, the additional layer will be executed the next day. The moisture of the ultimate layer will be preserved for the next 23- days. The performed mortar will reach its ultimate strength after a month.



	Gray cement/ white cement
components	Granulated lime aggregates with the maximum size of 3 mm
	Additives for water maintenance and workability
Wet Density	1800 gr/L
Air (fresh mortar)	20 %
Consuming amount	50 Kg for 1 m ³ setting for the thickness of 2 cm on the pottery and cement block
28-day compressive strength	More than 10 N/mm²







Joint Treatment & Skin Coating Mortar

TP202 - TP212



Product introduction

Bon Malat gray TP 202 and white TP 212 Joint Treatment & Skin Coating Mortar are the cement-based mortar that is used for the caulking of the narrow aqua panels of cement panels and making mastic the whole surface. These plasters can be executed manually and mechanically.

Construction and preparing method



Mix the 35 Kg pocket in an electric mixer along with 11 L of clean water uniformly. Note that the pocket contents must be added gradually, and be continued to reach a homogeneous admixture. Wait for 10 minutes after the homogeneity and remix it for a short time. The proper time for consuming the mixture is about 4 hours in 25 centigrade temperatures, 3 hours for the temperature about 25 to 35 degrees centigrade, 5 hours for the temperature more than 35 degrees centigrade.

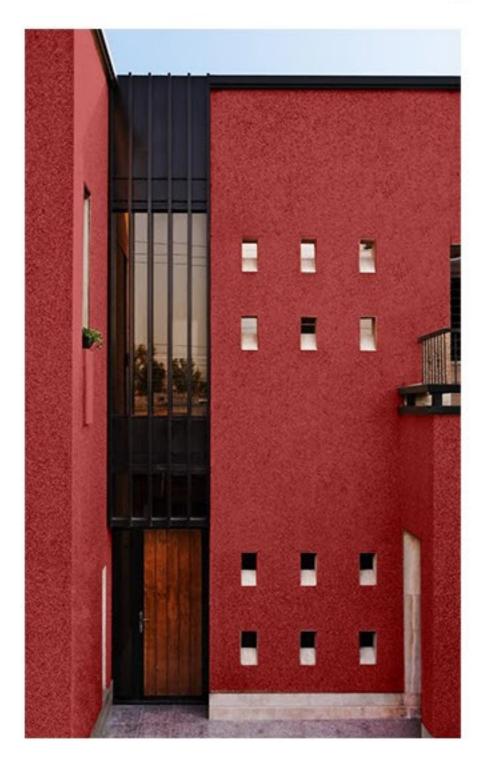
Surface preparing

Aquapanels should be fixed in their places, and their surfaces free of dust and other contamination.

Consuming method



For caulking: Locate the acm strips of aqua panels on the gaps, and apply a thin layer of mortar with a float to cover the strip. For covering the surface: Firstly, spread out the rmm thick mortar on the surface. If necessary, make it grooved with a scalloped float. Then, locate the aqua panel mesh on the surface and spread out a a-rmm layer again on the surface, and make it smooth with a trowel. The work surface is ready for the next operation after the mortar's hardening.



	Gray cement/ white cement
components	Granulated lime aggregates with the maximum size of 3 mm
	Additives for water maintenance and workability
Wet Density	1800 gr/L
Air (fresh mortar)	20 %
Consuming amount	50 Kg for 1 m ³ setting for the thickness of 2 cm on the pottery and cement block
28-day compressive strength	More than 10 N/mm²





The final plaster of colorful and traditional thatch of the internal and external façade

Product introduction



This is a semi-soft cement-based plaster applied by adding the mineral colors as the covering for the façade on the internal and external walls in a wide color spectrum. The ultimate plaster will become waterproof by adding an additive to the formula. It is used on the prefabricated concrete surfaces, smooth surfaces, the external surfaces covered by the cement mortar, or preferably the surfaces covered with the lining mortar. The traditional thatch plaster is produced in 3 colors by adding mineral pigments.



Product introduction

Mix the pocket contents in a mixer along with 910- L of clean water. Then, add 2.5 Kg clean straw (narrow strings of straw with length of maximum of 4 cm, and free of external materials) and mix it with a mixer. Wait for 10 minutes after the mixing and mix it again for a short time. Execute a 35-mm thick layer on the surface underwork with a trowel and make it smooth and level. It is advised to spray some straw on the layer executed before its drying for making a better façade-creating.

	White cement
components	Granulated lime aggregates with the maximum size of 0.6 mm for the external plaster and 0.2 mm for the internal plaster
	Water-soluble polymeric materials
Color	Produced in different colors
Layer thickness	3-5 mm
Consuming amount	1.3 Kg for 1 m ³ setting for the thickness of 1 mm
28-day adhesive	0.1 N/mm ²
strength	









Slab Tile adhesive, porcelain plus

TL318

Product introduction



This is a semi-soft cement-based plaster applied by adding the mineral colors as the covering for the façade on the internal and external walls in a wide color spectrum. The ultimate plaster will become waterproof by adding an additive to the formula. It is used on the prefabricated concrete surfaces, smooth surfaces, the external surfaces covered by the cement mortar, or preferably the surfaces covered with the lining mortar. The traditional thatch plaster is produced in 3 colors by adding mineral pigments.

Product introduction

Mix the pocket contents in a mixer along with 910- L of clean water. Then, add 2.5 Kg clean straw (narrow strings of straw with length of maximum of 4 cm, and free of external materials) and mix it with a mixer. Wait for 10 minutes after the mixing and mix it again for a short time. Execute a 35-mm thick layer on the surface underwork with a trowel and make it smooth and level. It is advised to spray some straw on the layer executed before its drying for making a better façade-creating.



Consuming method

The ultimately prepared adhesive is executed by a trowel on the surface underwork that is free of oily, sticky, and rubbish materials. Then, using a scalloped float equalize the thickness of the layer and makes it grooved. Then, install the tile on the adhesive layer with low pressure and circular movement. In addition to the execution of the layer underwork, the back of the tile should be plastered by a thin layer of adhesive (about 2 mm) before the installation of the tiles with dimensions greater than 40 cm. The maximum time for the tile installation is 1015-minutes after the layer execution. The execution of caulking should be done one day after the tiling of the walls and 23- days after the floor tiling.

	Gray of White Portland cement
aamnanants	Granulated lime aggregates with the maximum size of 0.6 mm
components	The additives for the water maintenance, adhesion increment,
	improvement of the properties, and decrement of the slippage
Layer thickness	5 mm
Consuming amount	6-8 Kg for 1 m ³
adhesive tensile strength	More than 0.7 N/mm ²





Tile adhesive •

TL300-TL310-TL305-TL315



Product introduction



Bon Malat tile and ceramic adhesive can be applied for tiling of the wall and the floor of the dry external and internal surfaces, tiling on the old tiles, as well as the adhesion of the porcelain and glazed tiles on the cement-based lining and the AAC block, and tiling on the gypsum walls (special tile adhesive).



Construction and preparing method

Mix the adhesive pocket contents in a mixer along with 5.56.5- L of clean water to reach a uniform paste. After the complete mixture, wait for about 10 minutes and mix it again for 15 seconds. The consuming time of the mortar is about 2 to 4 hours after mixture according to the ambient temperature.



Consuming method

The ultimately prepared adhesive is executed by a trowel on the surface underwork that is free of oily, sticky, and rubbish materials. Then, using a scalloped float equalize the thickness of the layer and makes it grooved. Then, install the tile on the adhesive layer with low pressure and circular movement. In addition to the execution of the layer underwork, the back of the tile should be plastered by a thin layer of adhesive (about 2 mm) before the installation of the tiles with dimensions greater than 40 cm. The maximum time for the tile installation is 1015- minutes after the layer execution. The execution of caulking should be done one day after the tiling of the walls and 23- days after the floor tiling.

components	Gray of White Portland cement Granulated lime aggregates with the maximum size of 0.6 mm The additives for the water maintenance, adhesion increment, improvement of the properties, and decrement of the slippage
Layer thickness	5 mm
Consuming amount	6-8 Kg for 1 m ³
adhesive tensile strength	More than 0.7 N/mm ²





Tile Grout - Colorful TLC / TL 320





Product introduction

Bon Malat tile grout can be produced in different colors. This mortar can be applied for filling the gaps less than 6 mm between the tiles, ceramics, and stones installed on the walls and floors inside and outside the buildings in different wet and dry conditions.



Construction and preparing method

Mix any 25 Kg pocket in a mixer along with 7.5 L of clean water. The mixing process will continue to reach a uniform and homogeneous paste. Wait for 10 minutes and stir the mixture for a short time (15 seconds).

Characteristics

High adhesion, easiness, and speed of the execution, resistance to cracking and abrasion, easiness in cleaning, high power in the filling, resistant to water and moisture.



Consuming method

Do the caulking operation with a plastic spatula with compaction the mortar paste in the gaps between clean dry tiles and ceramics. Do the caulking of walls 24 hours after the installation of tiles and ceramics and do it 48 hours after that. Pick the extra mortar up off the surfaces. Clean the caulked surfaces of the mortar 20 to 30 minutes after the caulking and hardening of the mortar by a wet brume and keep it wet for 24 hours.

	White and gray Portland cement
components	Granulated lime aggregates with the maximum size of 0.6 mm
Components	Additives to preserve water, increase adhesion, improve features
	and decrease slippery
Layer thickness	6 mm
Consuming amount	6-8 kg/m ²
28-day compressive	More than 15 N/mm ²
strength	



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BONYAD BETON ESFAHAN





Repair Mortar RM400 -



Product introduction

This cement-based mortar reinforced with powder latex and Polypropylene fibers with high strength, low permeability, and long durability is applied for the concrete restoration. This mortar is one-component and will be ready for consumption by adding water. The ultimate paste will be so strong and have high adhesion to the steel and concrete after water addition.



Construction and preparing method

The best way to produce a restorative mortar of Bon Malat is to use a round-down mixer. Pour 6 L of clean water into a mixer, and add the restorative mortar continuously. The mixing will continue after adding the powder to water to gain a homogeneous uniform mixture without any big bobbles. The necessary water is related to the relative moisture content and



Consuming method

Bon Malat restorative mortar can be manually and mechanically executed. The surface underwork should be firm and free of loose particles. Remove the dust, cement leachate, oil, grease, lipids, and the other materials that cause not-adhesion from the surface. Note that the surfaces of the restorative mortar on the restoration area should not be less than 10 mm. The work bedding should be saturated before the execution of the restorative mortar, but there should be no free water on the surface. In the case of manual execution, you should apply the mortar with compression on the saturated bedding to make an appropriate connection. The preliminary leveling should be done with a wooden or plastic float. The final leveling will be done by a steel float while the executed mortar becomes so hard that the compression of the finger can make only a small trace on it. The complete processing is necessary for 3 to 5 days. Due to the lack of puckering or cracking of the product, it is advised to do the processing with water. Also, it is advised to use the nylon covering.

components	Gray Portland cement, Granulated lime aggregates with the maximum size of 3 mm		
Additives	Water retaining polymeric materials and special additives for the improvement of the mortar applicability (all the additives are water-soluble and in the non-hazardous class)		
Packing	35 Kg Laminated paper pockets		
Water requirement	About 6 L per pocket		
Consuming amount	15-20 Kg/m ² per 1 cm thickness		
Bending Strength	28-day 11.2MPa		
Compressive strength	1-day 29.8 MPa		
	7-day 46.5MPa		
	28-day 49.1MPa		
Adhesive Strength	2.22		
Chlorine Amount	0.012		







Industrial Grout GM100 •



Specifications

Bon Malat industrial grout is significantly fluent and lacks shrinkage arising from the drying due to the special additives (avoiding the creation of voids under the base plate). Bon Malat industrial grout is for grout-pouring of the equipment, concrete connections, anchorage, and under column base of the steel structure.

Construction and preparing method



All the contact surfaces should be clean and resistant. The contact surfaces should be wet to avoid grout water absorption. The extra water should be removed. Bon Malat grout is designed for warm-dry and mild weather conditions. The ambient temperature in the time of grout-pouring during the hardening and reaching the ultimate strength should be more than 5 degrees centigrade. You should avoid the severe sun shining and fast winds during grout-pouring. Use 6 L of clean water for each 35 Kg pocket for grout mixing. The consumption of extra water decreases the resistance of grout. The mixing time is about 5 to 6 minutes. Continue the grout-pouring without any stop. The age of the prepared grout is about 30 minutes. Avoid the grout vibration.



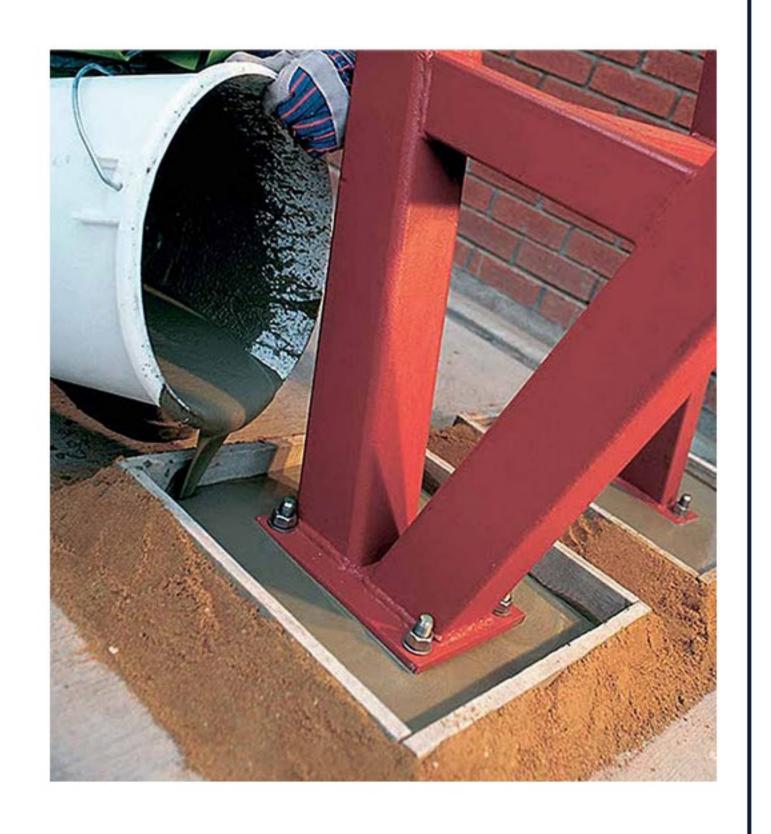
Processing

The processing should immediately begin after the grout-pouring while the grout is hardened enough to be able to moisturize. The processing should continue for a week by covering the grout with plastic and moisturizing.

Hardening

The hardening trend of grout is so fast. In a desirable condition, the grout will reach 70 to 80 % of ultimate strength in 1 to 3 days. The ultimate strength will complete after 28 days.

Components	Gray and white Portland cement	
	Granulated lime aggregates with the maximum size of 0.3 mm	
Additives	For the improvement of the applicability, shrinkage recover	
	(all the water-soluble materials)	
Packing	35 Kg Laminated paper pockets	
Water consuming	About 11 L for each 35 Kg pocket	
Durability	Resistant to weather conditions	
Fire resistance	A1	
Water absorption	W2	





مرکت بنیاد بتن اصفهان (سهامی خاص)

Two-component Waterproofing

WPP-WPL



Product introduction

This product is a very well water leakage blocking system with excellent adhesion to concrete and other mineral building materials. This two-component product is a cement-based covering reinforced by acrylic including the following components:

Connection-making element: based on the copolymers of Styrene acrylate forming dikes' layers

Bulking agent: cement-based powder modified by the chemical additives for the supply of the strength



Application

This product is a high-resistance protective covering as well as a well flexible material stable against the building's movement. It becomes hard enough after drying to tolerate the weight of the ultimate pavements like tiles and stones. The easy method for executing this product makes it to be used for sealing these cases: the foundations of the buildings, reservoirs, water resources of baths, toilets, industrial kitchens, swimming pools, the cement-based pipes of the channels and water passages.



Technical specifications

It is flexible after the drying process; it has excellent adhesion to the construction materials. It lets the structure for better breathing. It makes the mixture and surface execution have no void. It has excellent stability against water penetration in 1 mm thickness. It is completely stable against carbonation and chloride ion. It is not poisonous, so, it can be used for drinking water resources. It has an insignificant smell and is safe for users. It has enough hardness as the ultimate layer. It becomes a part of the structure after the drying process.

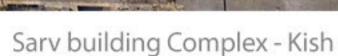
Appearance	Connection-making	Bulking agent:
	element:	Gray Powder
	Opaline material	
Chlorine amount	Zero	
Poisonous-being	Non-toxic	
Standard	BS 1881 part 208.1998	
The specific weight of the mixture	1.76 Kg/L	



Completed Projects •

- Tehran Atals Maal (Niavaran) Project, Bagh-e-Ferdows Iranian Company
- 2800-unit Garmdarre Aseman Alborz Project, Khane gostar Yekom company
- Qazvin trade tower Project, Azarbaijan's Tose'e Maskan company
- 1050-unit Ardabil Aseman, Ardabil's Tose'e Maskan company
- Shirudi and Sarpol-e-zahab Mehr housing project of Alvand, Islamic Revolution Housing Foundation
- Shrine of Ahmad bin Es'haq of Sarpol-e-zahab project, Islamic Revolution Housing Foundation
- Arak Kowsar alley project, Markazi province housing foundation
 Kish Sarv Project, Iranian concrete foundation
- Mashad Ershad residential project, Razavi-Khorasan province housing foundation
 Semnan Sina hospital project







Atlasmal - Tehran



Aseman Alborz - Garmdare







Daryadar Hemati Sq - Semnan

