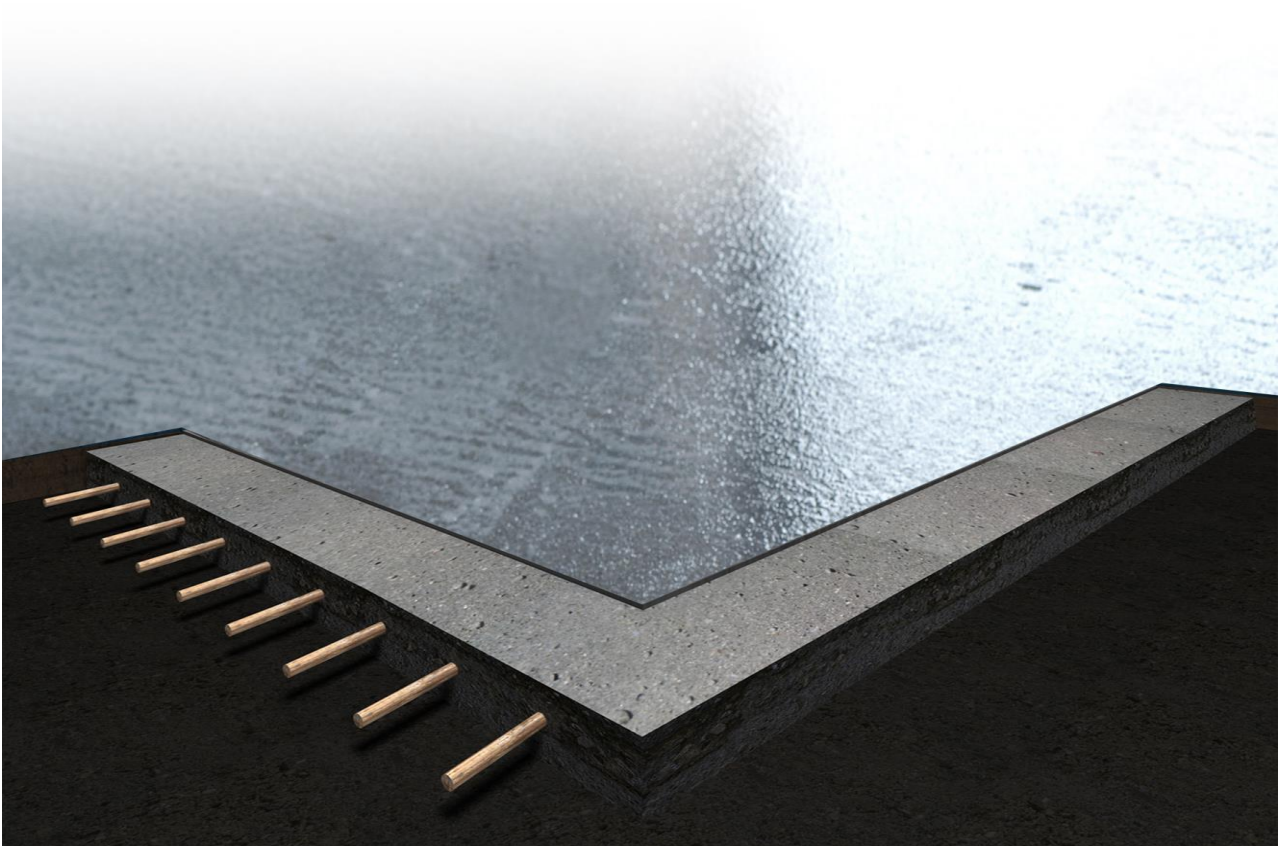


# **BULLET ROOF DPM PRIMER**

## USER MANUAL



## **BULLET ROOF DPM PRIMER – User manual**

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## **A. Features and application fields**

### **BULLET ROOF DPM PRIMER:**

Two component special DPM primer, based on epoxy resins and special hardeners, for preparation of humid surfaces.



## 1. Features

- Structurally adheres to both compact and porous construction materials, even if they are wet and on non-cured concrete (green concrete).
- Resistant to water back pressure.
- Provides an impermeable layer.
- Seals substrate porosity.
- It can be over-coated with numerous finishes and coatings, both breathable and impermeable to water vapor.
- It hardens quickly even at temperatures close to + 5 ° C and in the presence of moisture.
- Rapid hardening at temperatures close to + 20 ° C allows for multiple applications in the same day.
- After hardening , it resists to 10 bar of water back pressure.
- Application temperature from + 5°C to + 30° C of the substrate.
- Operating temperatures from -35 ° C to + 110 ° C in the air and + 65 ° C in water.

## 2. Application fields

- Fast-curing primer for the protection of humid cement-based substrates.
- Treatment of humid surfaces to guarantee the adhesion of floors, waterproofing and protective coatings.

## B. Substrate preparation

The first phase for the preparation of the substrates is the verification of their condition: the substrates, new or existing, must be sound, clean and dry, free from contamination. All dust and debris residues must be eliminated.

### 1. Cleaning

It is essential to perform an accurate cleaning of the substrate, removing greases, oils, dust, molds, any old finishes and anything that could negatively affect the application of new products.

### 2. Substrate preparation

The preparations must be adapted to suit the existing condition of the substrate, to suit their materials and to the type of coating which is going to be applied later.

- **Sanding:** mechanical process that uses the rubbing of abrasive discs on the surface in order to obtain the roughness and desired roughening.  
To be made for: low thickness coating.
- **Shotblasting:** mechanical process that uses metal grit projected onto the surface in order to obtain a cleaned rough surface.  
To be carried out for: multilayer and self-leveling coatings.
- **Scarifying or milling:** mechanical operation that allows removing of old thick coatings and the deep rehabilitation of surfaces also contaminated by oils, greases, etc.  
To be carried out for: high thickness coatings and screeds.

It is fundamental to evaluate the superficial cohesion, which must be in all cases of at least  $> 1.5$  MPa (pull-off resistance according to UNI EN 13892).

## ENVIRONMENTAL CONDITIONS FOR INSTALLATION

Substrate temperature

+5°C (min)

+30°C (max)

### C. Product preparation

Two component product to be mixed accurately before application.

#### A) Application with trowels

1. Put component B into component A, then mix at low speed until a homogeneous mixture is obtained.

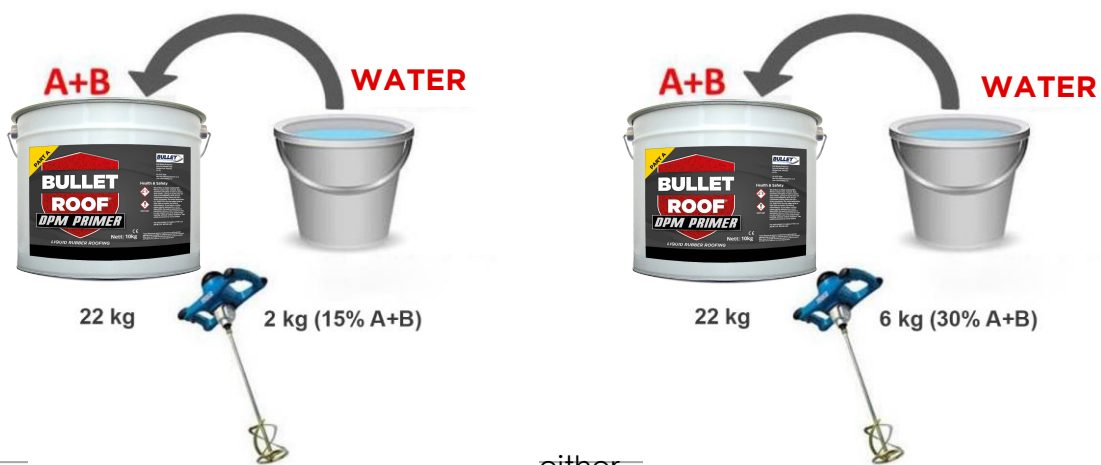


2. Add quartz sand (0,1- 0,3 mm) and mix with the same speed.



3. According to application, after mixing, the product can be diluted with water to achieve the desired consistency.

,the product must be mixed until homogeneous after dilution.

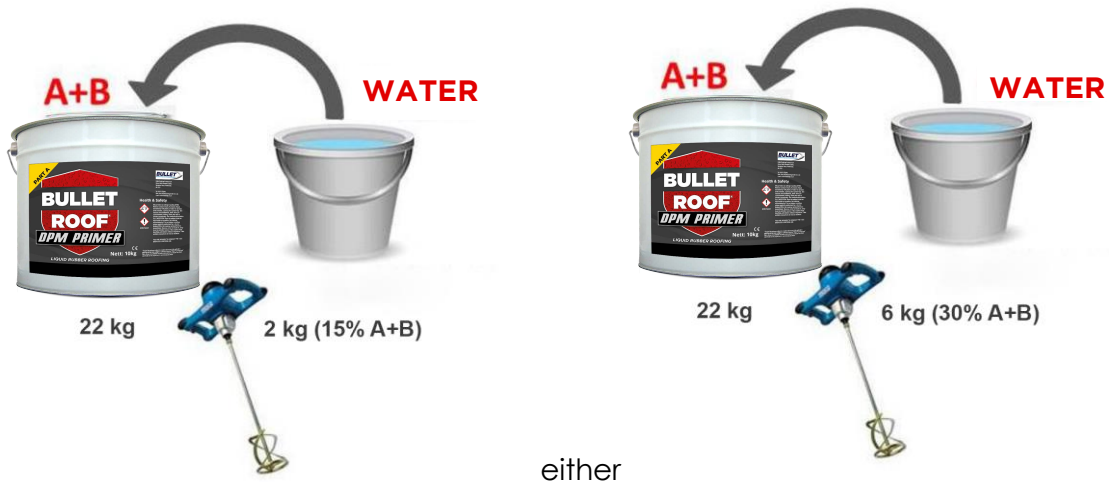


**B) Application with roller**

1. Put component B into component A, then mix at low speed until a homogeneous mixture is obtained.



2. According to application, after mixing, the product can be dilute with water. During the dilution, the product must be mixed. Until homogenous and uniform in consistency.



### 3. Product application

**Bullet Roof DPM Primer** can be applied by roller, brush, trowels, airless spray with an indicative consumption from 500 to 1000 g / m<sup>2</sup>.

It is possible to apply in more than one layer.

Depending on the application requirements , the product can be used as it is (undiluted) or diluted with water up to a maximum of 30% by weight, calculated on the catalysed product. (A +B mixed)

The product can be applied by trowel with added quartz sand. (mandatory 0.1-0.3 mm) up to 30%. The applied layer can be further treated with a quartz sand broadcast (suggested 0.1-0.5 mm).

After use the tools must be washed with DILUENTE 21.

#### A) Application with trowels

On the surfaces which have been prepared mechanically and are suitable for the application, perform a first scratch coat with a flat steel trowel, followed by a subsequent and immediate scatter or saturation of quartz sand , as desired to provide key. Then apply a second coat.

		Product	Consumption kg/m <sup>2</sup>	Thickness mm	Application method
1	Primer	BULLET ROOF DPM PRIMER	0,40	0,17	Trowels
1	Quartz	QUARTZ SAND 0.1-0.3 mm (10% by weight)	0,04	0,02	
1	Dilution	WATER (10% by weight)	0,04	-	
1	Broadcast	QUARTZ SAND 0,1-0,5 mm	1,00	0,38	Saturating
2	Primer	BULLET ROOF DPM PRIMER	0,40	0,17	Trowels
2	Quartz	QUARTZ SAND 0.1-0.3 mm (10% by weight)	0,04	0,02	
2	Dilution	WATER (10% by weight)	0,04	-	
2	Broadcast	QUARTZ SAND 0,1-0,5 mm	1,00	0,38	Saturating

Dilution with water and addition of 0.1-0.3 mm quartz can be changed by 10-30%.



**B) Application with Trowels /roller**

On the surfaces which are prepared mechanically and suitable for the application, perform a first scratch coat with a flat steel trowel, followed by a subsequent and immediate scatter or saturation of quartz sand , optionally.

Then application of a second coat of product by roller, diluting the product with 15% by weight of water and Broadcast immediately with quartz.

		Product	Consumption kg/m <sup>2</sup>	Thickness mm	Application method
1	Primer	BULLET ROOF DPM PRIMER	0,40	0,17	Trowels
1	Quartz	QUARTZ SAND 0,1-0,3 mm (10% by weight)	0,04	0,02	
1	Dilution	WATER (10% by weight)	0,04	-	
1	Broadcast	QUARTZ SAND 0,1-0,5 mm	1,00	0,38	-
2	Primer	BULLET ROOF DPM PRIMER	0,40	0,17	Roller
2	Dilution	WATER (20% by weight)	0,08	-	
2	Broadcast	QUARTZ SAND 0,1-0,5 mm	0,30	0,38	-

**C) Application with roller**

On the surfaces which are prepared mechanically and suitable for application, perform a first coat of product diluted with 15% of water (depending on the porosity of the substrate), followed by a subsequent and immediate broadcast, optionally.

Then application of a second coat of product by roller, diluting the product with 15% by weight of water and a subsequent quartz sand broadcast.

		Product	Consumption kg/m <sup>2</sup>	Thickness mm	Application method
1	Primer	BULLET ROOF DPM PRIMER	0,40	0,17	Roller
1	Dilution	WATER (20% by weight)	0,08	-	
1	Broadcast	QUARTZ SAND 0,1-0,5 mm	0,30	0,38	Optional
2	Primer	BULLET ROOF DPM PRIMER	0,40	0,17	Roller
2	Dilution	WATER (20% by weight)	0,08	-	
2	Broadcast	QUARTZ SAND 0,1-0,5 mm	0,30	0,38	Optional

Over-application after 4 hours.

As in all coating cycles, during the product hardening phase, the condensation of water on the surface must be avoided.

At the end of the work, wash the equipment with water or alcohol water mixtures.

