

# IDROGUM PLUS



**High performance continuous waterproof resin based on water emulsion, resistant to ponding water**



## Chemical composition

Elastomeric acrylic modified copolymers and special resins, dispersed in water, inert fillers, colored pigments, thickeners and various additives.

## Use of product

Properly mix before use. It is recommended to apply the product at temperatures above +10°C and to avoid application when fog, rain or frost are imminent, and always avoiding extreme weather conditions of hot or cold, even during the drying period of the paint.

**Before application make sure that the surfaces are clean and that they allow a proper drainage of water.**

**Avoid use on those with a low slope or which have obvious problems of ponding water as the product will soften jeopardizing adhesion to the substrate.**

Pre-treat the surfaces using IDROGUM PLUS as a primer by diluting with 15% of water.

The application must foresee at least two coats to provide a uniform coloration of the waterproofing layer, using approx. 1,8 kg/m<sup>2</sup> totally of IDROGUM PLUS depending on the nature and level of porosity of the substrate and the desired thickness.

As a first coat IDROGUM PLUS can be applied by brush, broom, roller and spray, diluted with 10% of water; for the successive coats dilute with 5% of water and apply only after the previous one is completely dry.

Wait approx. 24 hours between each coat (dry on dry).

Between the first and second coat while the product is still fresh, a layer of polyester (ARMO 100) can be applied to improve the mechanical characteristics of the product.

It is recommended to avoid applying the product on new bituminous surfaces which might still release residues and cause problems of adhesion between the product and the membrane.

We therefore suggest to wait 4-5 months after the application of the new bituminous membrane to allow for any residues to be completely eliminated; in any case wash the surface with clean water using a broom to make sure that the surface is clean from residual particles.

The product is not suitable to be applied on polymer bitumen membranes applied over insulation; it is instead suitable to be applied with polyester reinforcement ARMO 100, for those situations where it is foreseen.

IDROGUM PLUS cannot be considered a walkable coating, and should be walked upon with care only during roof maintenance or inspections.

After a period of approximately 4-5 years from application, the seal of the product must be checked.

If necessary, a coat of IDROGUM PLUS can be added.

Store the product in its original pail, sealed and at temperatures between +5°C and +35°C, protected from direct sun light and frost.

Does not withstand frost: once exposed the material is no longer suitable for application.

After use, clean all tools with water, should the product be dry, it is suggested to remove with white spirit or hot water.

## Description

Elastomeric liquid waterproofing resin, pigmented, based on resins and modified acrylic copolymers in water dispersion. After drying the product forms a resistant elastic film which adheres perfectly to the applied surface, resistant to atmospheric agents and eventual micro-cracks which can form on the surface.

**Resistant to ponding water and to UV rays.**

**High elongation performance.**

## Areas of application

IDROGUM PLUS is particularly suitable to coat and waterproof concrete roofs.

It is used to waterproof concrete terraces, bitumen coatings and polymer bitumen membranes.

When waterproofing concrete terraces, where the use of polymer bitumen membranes is not possible, IDROGUM PLUS is applied before gluing the ceramic tiles.

The product can also be used on fiber cement and wood.

Ideal to waterproof and protect polyurethane foams from UV rays.

## Packaging

Pail size	Pails per pallet
5 kg	125
10 kg	64
20 kg	42

We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.

**Technical data**
**ID MAGS 17**

PRODUCT IDENTITY		Norm	Average value	Tolerance
<b>Technical characteristics</b>				
Appearance			Coloured Paste	
Colours			Grey / Red / Green / White	
Viscosity			33000 cPs	± 2000
Specific weight	ISO 2811-1		1,35 g/cmc	± 0,03
Dry residue	ISO 3251		70%	± 3 pp
pH	ISO 2431		8,0 u.pH	± 0,3
Flammability point			PRODUCT NOT FLAMMABLE	
Physical-mechanical characteristics		Norm	Average value	Tolerance
Cold flexibility		EN 1109	-25°C	≤ average value
Operating temperature			from -15 to +100°C	
Tensile strength		EN 12311-1	60 N	≥ average value
Elongation at break		EN 12311-1	350%	± 20%
Artificial exposure to atmospheric agents (QUV test)			After 3000 hours no swelling or cracking. Slight change in coloration which does not modify the characteristics.	
Application data		Average value		
Storage in the original packaging			12 months	
Storage conditions			Temperature above 0°C. Store in unopened and closed packaging.	
Maximum application thickness			0,5 mm per coat - 1 kg/m <sup>2</sup> per coat	
Type of application			Brush, Roller, Spray (Airless)	
Prescribed application layers			primer + minimum 2, preferably crossed	
<b>PHASES OF APPLICATION</b>	PRIMER		dilute the product with approx. 15% of drinking water	Consumption: 300-400 g/m <sup>2</sup> depending on the substrate
	FIRST COAT		dilute with max 10% of drinking water	<b>Consumption: 1,8 kg/m<sup>2</sup></b>
	Note: for surfaces larger than 10 m <sup>2</sup> insert Armo 100 reinforcement			
	NEXT COATS		as it is or diluted with max 10% of drinking water	
<b>Total consumption of the complete cycle (including primer)</b>			2,2 kg/m <sup>2</sup>	
Final dry product thickness			1 mm	
Air application temperature			min - max 5-35°C	
Surface application temperature			min - max 10-35°C	
Air humidity			max 80%	
Surface humidity			max 5%	
Minimum slope			min 3% (it resists small stagnations)	
Waiting time out of touch (at +20°C)			2 h	
Waiting time for second layer (at +20°C)			min. 6 h (after complete drying)	
Complete reticulation waiting time			5 gg	
Final performance EN 1504-2		Norm	Limits of acceptability	Result
Adhesion to concrete		UNI EN 1542	For flexible systems without traffic: ≥ 0,8 N/mm <sup>2</sup>	> 0,8 N/mm <sup>2</sup>
Impermeability to water expressed as capillary absorption		UNI EN 1062-3	≤ 0,1 (kg/m <sup>2</sup> .h <sup>0.5</sup> )	0,01 (kg/m <sup>2</sup> .h <sup>0.5</sup> )
Water vapour transmission		UNI EN 7783-2	class I < 5 m	< 5 m
Permeability to CO <sub>2</sub>		UNI EN 1062-6 - Method A	≥ 50 m	> 50 m

The product can only be walked on for maintenance and repairs. Protective paints for waterproofing surfaces or cementitious structures may have cracking due to expansion linear thermal of surfaces. It is therefore advisable to provide for their restoration through maintenance of the roof periodically according to the allocation of the structure, air pollution and surface degradation; usually every 2-4 years.