

Product Technical Information

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FONDACOAT

DESCRIPTION AND SCOPE OF APPLICATION

A water based rubber modified bitumen coating, ideal coating for rough or porous surfaces.

- No solvent, safe for use in confined areas, no fire risk or dangerous vapours.
- Thick jellified compound which can be applied over rough surfaces, will fill the gaps, does not flow down when used vertically (tyxotrope).
- Field of applications:
 - Concrete protective coating, e.g. foundations and below grade structures.
 - Façade damp-proofing.
 - Curing compound to prevent the internal moisture of concrete.
 - Waterproofing, e.g. bathrooms, kitchens & wet areas of surface less than 20 m².
 - Primer for self adhesive or torch-on membranes after diluted of water (1 volume of water for 2 volume of FONDACOAT).
 - Renovation coating over old bitumen roofing membranes (maintenance works).
- Lightweight drums of 20 Kg for easy manhandling.



In all cases, this product must be used in accordance with the relevant technical specifications.

COMPOSITION AND NOMINAL CHARACTERISTICS

Composition	Bitumen, Butadiene-Styrene-synthetic Latex polymer, spreading and thickening agents, water
Colour	Black when dry
Drying time at 20°C	6 hours if used as primer. 12 hours if applied as coating 1 to 1.5 mm thick. Please note that depending of the ambient conditions such as very humid atmosphere and the thickness layer, the drying time can be slightly extended.
Dry extract	40%
pH	≥ 10
Density	1.04
UV resistance	2 months
VOC content	0 g/l
Chemical resistance	Carbon dioxide, weak acids, sea water, sulphur dioxide, sulphates and chlorides

PERFORMANCES

KIND OF TEST	Reference Norm	Units	Nominal Values
Permeability on dry film 1 mm thick	EOTA TR 003 (EN1928)	N/A	OK
Cold temperature flexibility on dry film 1 mm thick	EN 1109	°C	-5
Flash point	Water born product	°C	> 200
Peeling resistance bituminous membrane on concrete with this product used as primer	Peeling at 90° 10 mm / mm	N/50 mm	75
Heat flow test bituminous membrane on steel with this product used as primer	FIT / CSTB classification 45° slope, 90°C 2 hours	mm	0.4
Heat flow test dry film 1 mm thick on concrete support	EOTA TR 009 90° slope, 90°C 7 days	mm	0

ISO 9001 REFERENCE DOCUMENT

Our company has been awarded the ISO 9001 certificate for all its establishments in France.

Our company reserves the right to modify this document as a result of technological and experimental improvements.

To obtain the up-date technical data sheet, please contact Siplast



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PACKAGING

	20 kg cans	5 kg cans
Number of cans per truck pallet		
number of cans per container pallet	27	125
number of cans per wooden box	27	115

GENERALITIES ABOUT APPLICATION

<u>Damp proofing of concrete structures and foundations</u>	Underground but above the water table 0.5 to 0.75 kg / m ² of pure FONDACOAT according to the site condition. 0.3 to 0.5 kg / m ² of pure FONDACOAT in very dry site condition.
<u>Building façade damp proofing</u>	0.500 kg / m ² of pure FONDACOAT on smooth surfaces applied in 1 coat 0.750 kg / m ² of pure FONDACOAT on rough surfaces (such concrete blocks) applied in 1 or 2 layers. <u>Note</u> : In all cases, and if the rooms are heated during the cold season, the Engineer could modify the application consumption and / or require a preliminary surface treatment according to the site conditions.
<u>Wet areas</u>	2.00 to 2.50 kg / m ² of pure FONDACOAT on smooth surfaces applied in 2 coats <u>Note</u> : In all cases, the Engineer could modify the application consumption and / or require a preliminary surface treatment according to the site conditions.
<u>Renovation works</u>	4.00 to 4.50 kg / m ² of pure FONDACOAT on cleaned existing waterproofing applied in 4 coats <u>Note</u> : This application is limited for details and maintenance works only. Immediately after the last layer is applied granulates can be applied to improve the aspect and UV resistance.
<u>Flash filling</u>	To avoid water retention on existing waterproofing several layer may be applied with pure product or with FONDACOAT mixed with sand. The last layer shall be done with pure FONDACOAT. Immediately after the last layer is applied granulates can be applied to improve the aspect and UV resistance.
<u>Primer</u>	<u>Diluted</u> in water at the ratio of 1 volume of water for 2 volumes of pure product. 0.3 kg / m ² of diluted emulsion i.e. about 0.2 kg / m ² of pure product <u>Note</u> : The blend must be carefully stirred but not mixed. The water must be progressively added and mixed to the emulsion during its stirring. It is recommended to apply it latest during the week following its preparation. The concrete surface must be dust free, oil free and clean. In all cases the Engineer could modify the application consumption (support porosity and roughness) and / or require a preliminary surface treatment according to the site conditions.

Substrates	Concrete. Concrete surface must be dust free, oil free and clean. It is preferable to apply this product on damp supports.
	This product can not be applied on metallic surface without our approval. In case of doubt concerning the comprehension of this document, do not hesitate to contact our Technical Department.
Application	The product is applied using roller, brush, squeegee or spatula. In all case stir the product (don't mix) before using it, and so, even if the product surface looks ready to use. In regard to its nature, this product must be applied by dry weather, the air and support ambient temperature shall be more than 5°C. The treated surfaces shall be protected from the rain until they are fully dry. Don't apply this product if there is a risk of rain or frost in the coming hours
	FONDACOAT is a water based product, water starts to evaporate at curing time; if a thick layer is applied cracks may appear due to the evaporation; so, for thick layer (1.5 to 2.5 mm) we recommend to add before stirring fine to coarse sand (0.05 to 1 mm) or to apply pure product in multiple layers. In all cases, if cracks is noticed after curing, just cover with additional coat of pure product on top.
Design	This document is only a product technical data sheet, regarding each waterproofing design, please, consult the concerned technical agreement and in case of doubt contact our technical department.

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ADDITIONAL INFORMATION

Tolerances	The average values are from standard tests and are subject to the usual production variations. The nominal value tolerances comply with the indicated standards. Some slight variations can be noticed as the values are based on the average values obtained from several plants.
Modification(s)	Our company reserves the right to modify its composition as a result of technologic and experiments improvements. To obtain the up-dated technical data sheet, please contact our technical department.
Storage	Although the product is not destructured (the structure of the emulsion is not degraded) by the frost it must be carried and stored at temperatures superior to 5°C. This product must be stored under shelter, away from heat sources. It is better to use it in the 12 months following its production date. The given information come from tests performed in our laboratories; these values are communicated in good faith.