TECHNICAL DATA SHEET

HYPERTECTUM®
A division of ETS Europe

Date : 23/08/2012
Revision : 19/12/2016

Hypertectum AF®

Seamless liquid aliphatic polyurethane membrane for waterproofing and protection

PRODUCT INFORMATION

DESCRIPTION :
Hypertectum AF® is a one-component polyurethane fluid which hardens in the presence of atmospheric humidity.
It consists of a highly elastic, durable membrane with strong adhesion to many different types of surfaces, provided the use of the correct primer.
Hypertectum AF® is used as second coat layer.

It is based on a pure elastomeric aliphatic polyurethane resin plus special inorganic fillers.

COLOURS :
White and light grey

MAIN FEATURES

- Aliphatic and mono-component
- UV resistant
- Applicable for complex roofs
- Excellent adhesion to various substrates, provided the use of the correct primer
- Thinners are not needed
- Excellent weather resistance and good UV resistance
- Excellent thermic resistance
- Apply cold without a risk of fire
- Excellent mechanical properties
- High tensile strength
- High tear strength and tear resistance
- Good chemical resistance
- Non-toxic after full cure
- Water vapour transmission

RECOMMENDED FOR

Waterproofing and protection of:

- Tiles
- Plaster and concrete elements
- Bathrooms
- Verandas and balconies
- Roofs
- Asphalt membranes
- Tanks (not for drinking water tanks)
- Irrigation channels
- Car parking and stadium stands
- EPDM membranes
- Bridge platforms
- Light roofing made of metal or fibrous concrete

APPLICATION TREATMENT

SURFACE TREATMENT

Clean surface with high pressure, remove all oil, grease and wax. Loosen concrete skin parts, remove curing compounds.

First remove all defaults of old roof, and assure if there isn't any moisture beneath. After these treatments, use the correct primer on the surface (see technical data sheet primers).

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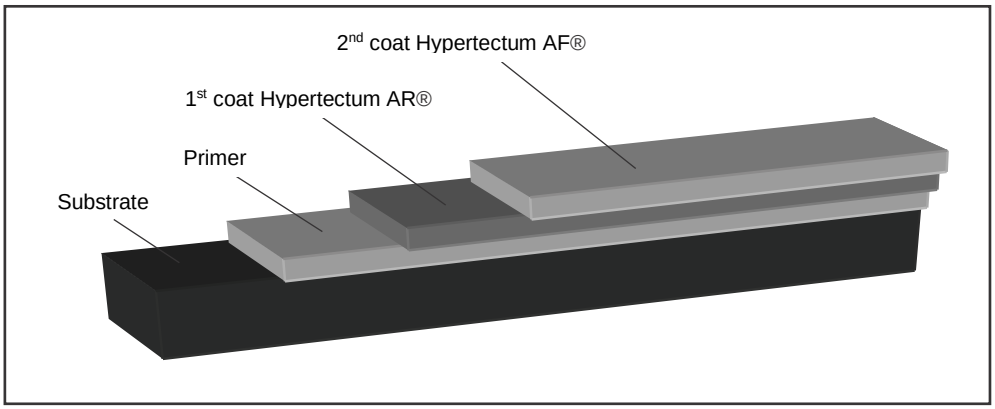
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SYSTEM STRUCTURE



TECHNICAL INFORMATION

Property	Unit	Specification
Density	gr/cm³	1,3 – 1,4
Flash Point	°C	42
Tack free	Hrs	6
Recoat time	Hrs	6 – 24
Service temperature	°C	-40 / +80
Max temperature short time (Shock)	°C	200
Hardness	Shore A	70
Tensile strength 23°C	kg/m³ (N/mm²)	55 (5.5)
Elongation 23 °C	%	> 600
Elongation -25 °C	%	450
Water vapour transmission	gr/m².hrs	0.8
Adhesion to concrete	kg/cm² (N/mm²)	>20 (>2)
Tensile strength at 300% elongation	%	<3
QUV, accelerated weathering test (4hrs UV at 60°C (UVB lamps) & 4hrs cond. at 50°C)	-	After (2000 hours)
Hydrolyse (8% KOH, 15 days at 50°C)	-	Unaffected

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TREATMENT

1st COAT
ETS HYPERTECTUM AR ® :

- Use a low speed mixer. X-cleaner can be added with a max of 5 to 10% for application by airless spraying
- Apply with roller/brush or airless spraying
- For specific details, use a fleece (only for 1st coat)

2nd COAT
ETS HYPERTECTUM AF®
Same application as 1st coat

REMARKS

The surface must be dry.
The ideal temperature is 16°C. A lower temperature has a much longer drying time. The ambient temperature must however always be more then 5°C. Dust free after 6 hours at 25°C. Do not exceed 48 hours between 2 coats. If more time passes (more than 4 days), a new primer must be applied.

PRECAUTIONS

- Avoid contact with skin and eyes
- Apply in well-ventilated, non-smoking areas, away from naked flames
- In closed spaces, use ventilators and carbon active masks
- Safety information → see MSDS sheet

CLEANING

Witht ETS X-cleaner

PACKAGING, CONSUMPTION, STORAGE

Packaging : 1kg, 6kg, 15kg, 25kg and 200kg

Consumption : - 1st coat Hypertectum AR® : 0,7-0,9kg/m²
- 2nd coat Hypertectum AF® : 0,8-0,9kg/m². Minimum total consumption : 1,5-1,8kg/m²

Storage : Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures above 5º C. Once opened, use as soon as possible (remove any skin formation).

SAFETY, ECOLOGY, ELIMINATION

For more information regarding safety during transport, storage and consumption, as well as elimination and ecology, see MSDS sheet.

The information in this product sheet, reflects the most modern techniques and procedures. The use of the product is not under our control, the manufacturer nor the Distributor can be held responsible for these indications. Instructions not covered by the contents of this product sheet, require written confirmation of the headquarters.

Our general conditions are permanent of application. This product sheet cancels and replaces the previous one.

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