

HYPERDESMO[®]

Waterproofing Leadership

FOUNDATION WATERPROOFING

Foundations waterproofing system based on HYPERDESMO-PB products.



This system is based on HYPERDESMO-PB range of products. HYPERDESMO-PB products are based on a pure elastomeric hydrophobic polyurethane resin extended with chemically polymerized virgin bitumen. After curing they give a seamless, very elastic and extremely hydrophobic membrane which is ideal for several NON-exposed waterproofing applications. HYPERDESMO-PB materials serve also as perfect vapour barriers and have excellent anti-root properties.

This system involves four main different HYPERDESMO-PB products:
HYPERDESMO-PB-2K, HYPERDESMO-PB-1K-FC

A General Conditions

Equipment

The following application equipment is at minimum required:

Protecting clothing: Protective overalls and gloves

Mixing equipment: 1KW slow speed drill, 400 or 500 rpm and suitably sized mixing vessel.

Application equipment: notched trowel, squeegee or roller. Airless spray machine can be also used.

B

Working Weather Conditions

Application temperature range: 5°C to 35°C. Avoid dew point conditions during application.

Relative humidity must be no more than 95% and substrate temperature must be at least 3°C above measured dew point temperatures. Do not apply under rain or snow.

Please keep always products at original packaging in room temperature before application.

If temperature is above 35°C, the following guidelines are suggested:

1. Store materials in a cool environment, avoiding exposure to direct sunlight
2. Keep application tools cool and dry.
3. Try to avoid application during the hottest hours of the day.

C

System Products

1. Primer: MICROSEALER-50
2. Main membrane: HYPERDESMO-PB-1K-FC, or HYPERDESMO-PB-2K

D

Surface Preparation

Proper preparation of the substrate is essential for complete adhesion and successful application.

1. New concrete or other cementitious substrate should be at least 28 days old.
2. The substrate should be clean and free of loose particles, oil, grease.
3. Substrate should be free of any irregularities and flat. If needed, it should be grated with the appropriate mechanical equipment in order to achieve a flat and sound surface.
4. The substrate should be free of dust. Vacuum treatment or/ and high-pressure washing is suggested to remove dust.
5. Primer application can be done over damp concrete too. But any ponding water should be removed before primer application.

E

Substrate Priming

MICROSEALER-50 is a low viscosity polyurethane based primer. You choose this primer if your concrete surface is porous. MICROSEALER-50 primer will penetrate, stabilize and seal the concrete surface in depth.

After MICROSEALER-50 application you should wait at least 12 hours in order to apply the main membrane. Apply the main membrane within maximum 7 days after primer application. Typical consumption of MICROSEALER-50 is 200 ml/m². Depending on concrete porosity, multilayer application of MICROSEALER-50 may be required. In this case, successive layer is applied after full curing of previous layer.



MICROSEALER-50 can be applied with roller or/and airless spray machine. Notes:

1. If it rains after primer and before main coat application, you may need to apply again one coat of primer.
2. More primers are available for special cases, surfaces and weather conditions.
3. For more information about surface preparation please contact our technical assistance team.

F

Water Proofing Membrane

HYPERDESMO®-PB-2K is a fast-curing, two component, bitumen-extended polyurethane fluid. It produces a highly elastic membrane with strong adhesion to many types of surfaces and excellent mechanical and chemical resistance properties.

It is based on a pure elastomeric hydrophobic polyurethane resin extended with chemically polymerised virgin bitumen.

Apply with brush, roller, spatula or airless spraying. Minimum consumption: 1.0-1.5 lt/m².

HYPERDESMO®-PB-1K FC is a very fast throughout curing, one component, self-leveling bitumen-extended polyurethane liquid membrane. The product although fast curing, does not exhibit bubbling during the curing process even at high temperatures and humidity in the atmosphere.

Apply with brush or spatula or airless spraying. Total consumption: 2.0 kg/m² in one or two coats.

I

Cleaning

Clean tools and equipment first with paper towels and then using SOLVENT-01.

J

Precautions and Variations.

Please consult above referred products technical data sheets (TDS) and safety data sheets (SDS).

This method statement is offered by ALCHIMICA as a 'summary proposal' for exposed concrete roofs. For more information and technical support, please contact ALCHIMICA at: info@alchimica.co.za.

Where alternative methods are to be used, these must be submitted to ALCHIMICA for approval. ALCHIMICA will not accept responsibility or liability for variations to the above method statement under any other condition.

