

AQUASEAL HYPRUFE

A Bitumen/Rubber Latex Emulsion Damp Proof Membrane and Protective Coating

Description of Product

AQUASEAL HYPRUFE is a rubber/bitumen liquid emulsion with excellent adhesion which dries to a tough black seamless, flexible waterproof and vapour proof membrane.

Fields of Application

- Tanking and Waterproofing structures: to provide an impervious waterproof membrane on concrete and brick.
- Floors: to provide a liquid applied damp-proof sandwich membrane in new construction.
- Walls: for interior and exterior walls.
- As an adhesive: for bonding wood blocks and insulation board, expanded polystyrene and to provide a key for plastering.

Features and Benefits

- **Jointless** - AQUASEAL HYPRUFE forms a continuous, durable dampproof coating.
- **Brush application** - AQUASEAL HYPRUFE is quick and easy to apply by brush direct from the can.
- **Solvent Free**

Technical Data/Typical Properties

Colour	Black/Brown Liquid
Specific Gravity	Approx 1.01
Composition	Thixotropic cold applied bitumen emulsion with added rubber latex
Surface Temperature Limits:	Between -4°C and 40°C
Solids Content	60% ± 1%
Viscosity	1200 CPs
Tack Free	1 - 2 hours dependent on ambient temp + humidity

Application Procedure

Priming

All surfaces to which AQUASEAL HYPRUFE is applied must be sound, stable, with an even finish and free from dirt, dust, loose debris, grease, etc. It may be applied to damp but not waterlogged surfaces. Hot, very dry or porous surfaces should be dampened with water before AQUASEAL HYPRUFE is applied.

Mixing

Stir well before use.

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Application

AQUASEAL HYPRUFE may be applied by brush or squeegee.

AQUASEAL HYPRUFE is not resistant to rain until it has fully dried. Drying time 24 hours or more depending upon the ambient weather conditions. The product should not be applied if it is raining or if rain is threatened. It is best to apply the product on the morning of a good drying day. In confined spaces allow ventilation for drying. Poor ventilation will delay drying times considerably.

AQUASEAL HYPRUFE is not resistant to frost until it has dried. Do not apply to surfaces which are frozen or frosted, when frost is expected or if the ambient temperature may fall below 5°C.

WATERPROOFING & PROTECTIVE COATING OF STRUCTURES**Foundations, Retaining Walls and Bridge Abutments**

AQUASEAL HYPRUFE may be applied to green concrete immediately after shuttering has been removed.

The AQUASEAL HYPRUFE treatment should meet the damp-proof course provided in the base or wall. Two coats should be applied, the first at 2m²/litre, the second at 2.25m²/litre. The first coat should dry before applying the second.

Before back filling, while the final coating is still tacky, a layer of building paper should be applied in order to protect it from damage. Then allow two days to elapse before back filling.

Concrete Beams and Columns

AQUASEAL HYPRUFE may be used to provide a vertical or horizontal damp-proof membrane on concrete beams and columns before they are clad with masonry or brickwork.

Two coats of AQUASEAL HYPRUFE should be applied, the first at 2m²/litre, the second at 2.25m²/litre. The first coat should be allowed to dry before applying the second. When the second coat is tacky and black in colour, it should be well blinded with 1 to 2mm stone chippings or clean, sharp sand and should be left to set for at least two days. Any loose sand should be lightly brushed off.

Tanking and Damp proofing Structures below Ground Level

Internal treatment with AQUASEAL HYPRUFE can be an effective means of preventing the ingress of dampness but it is unlikely to resist exposure to free water or water pressure. AQUASEAL HYPRUFE may be applied to damp but not waterlogged surfaces. Good ventilation for drying should be allowed in confined spaces. Two coats of AQUASEAL HYPRUFE should be applied as above. The second coat should be blinded as above and the interior wall must then be finished by an appropriate gypsum plastering.

FLOORS**As a Sandwich Membrane in New Construction**

Two coats at the specified rates can give a dried film thickness of at least 0.6mm to comply with BS Code of Practice 102.

Brush the first coat of AQUASEAL HYPRUFE onto the smooth and clean concrete sub-floor at the rate of 1m²/litre and allow to dry thoroughly. The second coat is then applied at 1m²/litre. Blind with clean sand while tacky as a protection against foot traffic and to provide a good key for the top screed. Allow to dry thoroughly.

The top finishing screed should be at least 50mm thick. The AQUASEAL HYPRUFE membrane must be taken up walls to marry up with DPC. Ensure that the dried film is not punctured or damaged.

WALLS

AQUASEAL HYPRUFE may be used very effectively to treat walls where damp is penetrating. However, if rising dampness is suspected, the best method of prevention will be repair of the DPC or insertion of a new DPC.

Note: Tanking procedures should be adopted for walls in underground structures.

Interior Walls with Extreme Dampness

The plaster should be hacked back to expose the brickwork over the whole area. Any damage to the brickwork and mortar joints should be made good with cement mortar. Three coats of AQUASEAL HYPRUFE at 2.25m²/litre approximately should be applied, allowing each one to dry completely before the next is applied. The final coat should be blinded with clean sharp sand while still "tacky" and allowed to dry. New plaster may then be replaced to the level of the surrounding sound plaster.

Note: Plaster, **not** sand and cement, must be used in the treatments described. Refer to plaster manufacturers to relevant grade of plaster.

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Exterior Walls

Remove all dirt, dust and grease. If the surface is uneven, level using cement mortar. Bare brickwork should be covered with a thin skin of cement mortar. This should be allowed to dry.

Three coats of AQUASEAL HYPRUFE should be applied at 2.25m²/litre. Each coat should be allowed to dry before applying the next. The final coat should be blinded with clean, sharp sand while it is still "tacky".

Coverage

Use	Number of Coats	Coverage Rates in m ² per litre		
		1st coat	2nd coat	3rd coat
Priming Coat (When required) Diluted with six parts water	1	7.50		
Waterproofing and Protective Coating of Structures Bridge abutments, retaining walls, culverts, concrete or brick foundations, concrete columns and beams	2	2	2.25	
Floors Sandwich Membrane	2	1	1	
Surface Treatment	2	1	1	
Walls Interior and Exterior	3	2.25	2.25	2.25
Adhesive Wood blocks	1	1.25		
Insulation board, expanded polystyrene	1	1.50		

Cleaning

Before AQUASEAL HYPRUFE has set, clean tools using soapy water. If set, remove by scraping and with paraffin or white spirit.

Packaging

AQUASEAL HYPRUFE is supplied in 2.5, 5, 25 and 205 litre containers.

Storage

AQUASEAL HYPRUFE may be permanently damaged by frost. Store at temperatures in excess of 5°C.

Shelf Life

Minimum 12 months if stored in accordance to manufacturer's instructions in unopened containers at normal temperatures between 10°C to 20°C.

AQUASEAL HYPRUFE Degussa construction Chemicals UK Version 5

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

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