

# AQUADUR

# Two-component, water based, epoxy coating / primer.

### DESCRIPTION

**AQUADUR** is a two-component, water based, epoxy coating. It has a track record of more than 20 years of successful use as primer for the **HYPERDESMO**<sup>®</sup> line of products, as well as other ALCHIMICA<sup>TM</sup> polyurethane based products.

It is certified as "Class III" water and humidity barrier, which makes it ideal for applications subject to negative pressure / rising humidity.

An easy to use and safe (zero VOC) product with many applications besides priming.

### **COMPLIANCE - CERTIFICATION**

• Water and humidity barrier: Class III.

#### **RECOMMENDED FOR**

Use as:

- Primer in applications with rising humidity / negative pressure (tanks, pools, foundations etc.),
- primer for other systems, e.g. epoxy or polyurethane based, cementitious,
- sealing coat for concrete,
- · adhesive layer between old and new concrete,
- water / humidity barrier.

### FEATURES & BENEFITS

- Highly effective water/humidity barrier.
- Easy application (water based).
- Low-odor, safe and non-flammable (zero VOC).
- Suitable for application in closed spaces.
- Easy clean-up.
- Strong adhesion even on damp or green concrete. Also on iron, galvanized steel, aluminium, glass and wood.
- Good mechanical properties and abrasion resistance.

#### **APPLICATION PROCEDURE**

#### Mixing:

Mix the two components well. Add water 10-30%. Stir manually or using a low speed (300 rpm) mixer.

### Application:



Application in thin coats only. Apply with roller in one or two coats with total consumption of 150 gr/m<sup>2</sup>.

• As water/humidity barrier -

Apply with roller in three coats with total consumption of  $600 \text{ gr/m}^2$ .

Recoat time cannot be determined in terms of hours since it is highly dependent on weather conditions: It can be as low as 5 hours during summer and as high as 24 hours during winter. Use the following rule of thumb to determine when recoating should take place. Recoat (with AQUADUR or HYPERDESMO<sup>®</sup>) once the colour on the current coat goes from milky white to transparent. Also check that the current coat has hardened to the degree where it can no longer be punctured by finger nail.



- Do not exceed the stated consumption numbers as this will affect adversely its adhesion and durability.
- Pot life of mixture is 1 hour maximum at 25 °C.
- Do not apply when temperature is below 10 °C.
- Hot concrete should be wetted before application.

Certified quality, environmental and occupational health & safety management systems: ISO 9001/14001 & OHSAS 18001.



Can be kept for 12 months minimum in the

original unopened pails in dry places and at temperatures of 5-25 °C. Once opened, use as

AQUADUR is free of solvents. Nevertheless, you

are advised to observe the standard safety rules: Apply in well-ventilated, no smoking areas, away

M.S.D.S. (Material Safety Data Sheet) is available

ventilators and carbon active masks.

In closed spaces use

The

Other colours available on request.

SAFETY INFORMATION

SHELF LIFE

soon as possible.

from naked flames.

on request.

# AQUADUR

## CONSUMPTION

- As primer Apply in one or two thin coats with total consumption of **150 gr/m<sup>2</sup>**.
- As water/humidity barrier Apply in three coats with total consumption of 600 gr/m<sup>2</sup>.

### CLEANING

Clean tools and equipment first with paper and then using SOLVENT-01. Under no circumstances should they be re-used to mix/apply polyurethane products.

### PACKAGING

Transparent: 4 kg (1 + 3 kg) and 10 kg (2.5 + 7.5 kg). White: 5 kg (1 + 4 kg) and 10 kg (2 + 8 kg).

# TECHNICAL SPECIFICATIONS

## In liquid form (before application, after mixing):

Component A – colourless.

Component B – transparent or coloured (as required).

(In transparent, the mixture becomes white but, when fully cured, membrane is transparent again.)

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	сР	ASTM D2196-86, @ 25 °C	3,500
Specific weight	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.0
Mixing ratio of transparent AQUADUR	A:B, by weight	-	1:3
Mixing ratio of coloured AQUADUR	A:B, by weight	-	1:4
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	5-6
Full cure	days	-	7

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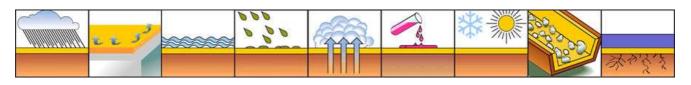
# AQUADUR

			Recoat once the
Recoat time			colour on the
			current coat goes
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	-		check that the
		-	current coat has
			hardened to the
			degree where it
			can no longer be
			punctured by
			finger nail
Pot life	hours	-	1 @ 25 °C

## In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	10-40
Water vapor transmission	gr/m².24hr	EN ISO 7783-2	3.9 Class III (Low, < 15)
Water transmission	kg/m².hr <sup>0.5</sup>	NF EN 1062-3	0.003-0.006 Class III (Low, < 0.1)
Adhesion to concrete	kg/cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D4541	> 30 (> 3)
Resistance to friction	Gr	ASTM D4541 (Taber 503, CS17, 1.0 kg, 1,000 revs.)	120 * 10 <sup>-3</sup>

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