



DURAPLAST WR

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High Performance Waterproof Cementitious Plaster

Product Description:

Hydrobloc Duraplast WR is a high-performance, polymer-modified, fibre-reinforced waterproof cementitious plaster designed for applications from 5 mm to 25 mm thickness. Powered by Addiflex CSH crystalline waterproofing technology and silane hydrophobic additives, it provides integral waterproofing, water repellency, and long-term durability for internal and external applications exposed to severe environmental conditions.

Key Features & Benefits:

- Integral crystalline waterproofing technology
- Advanced silane-based water repellency
- Fibre reinforced for crack control
- Polymer modified for improved adhesion & durability
- Excellent UV, chloride & marine resistance
- Low permeability and dense matrix structure
- Suitable for 5–25 mm application thickness
- Compatible with wet areas & swimming pool systems

Areas Of Application:

- Coastal and sea-facing facades
- Retaining walls & basements
- Swimming pool backing plaster
- Water tanks & wet process areas
- Wet areas, bathrooms & utility zones
- Concrete and masonry protective rendering
- High UV exposure facades & balconies

Surface Preparation:

- Substrate must be structurally sound, clean, and free from contaminants
- Remove laitance, weak concrete, and loose particles mechanically
- Repair honeycombs and major voids prior to application
- Pre-wet absorbent substrates to SSD condition
- Roughen dense concrete surfaces before application

Mixing Instructions:

- Add 20–22% clean potable water (approx. 5.0 – 5.5 liters per 25 kg bag)



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- Mix with a slow-speed electric mixer (400–600 rpm) for 3–5 minutes until a homogeneous, lump-free consistency is achieved
- Allow the mix to stand for 2 minutes, then remix briefly
- Do not exceed recommended water addition
- Pot Life: Approx. 45–60 minutes.

Application Guidelines:

- Apply using steel trowel, plastering tools, or spray equipment
- Compact firmly against the substrate to eliminate air voids
- Apply in uniform thickness
- Recommended single-layer thickness: 15–20 mm vertical / up to 25 mm horizontal
- For thicker builds, apply in controlled passes with good compaction
- Finish with steel trowel, sponge float, or wooden float

Application Temperature: +5°C to +40°C.

Coverage/ Consumption:

Thickness	Consumption (kg/m ²)
5 mm	9.5 – 10.0
10 mm	19 – 20
20 mm	38 – 40
25 mm	47 – 50

General Formula: Consumption (kg/m²) = Thickness (mm) × 1.9

Actual usage depends on substrate profile and application technique.

Curing & Protection:

- Begin curing as soon as the surface has hardened sufficiently
- Cure with clean water for a minimum of 3–5 days
- Protect from direct sunlight, strong wind, rapid drying, and rain during initial setting
- Extended curing is recommended in hot or windy conditions
- Proper curing is essential for crystalline development and optimal waterproofing performance

Packaging:

Available in 25 kg moisture-resistant bags



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Storage & Shelf life:

Store in dry, cool conditions protected from moisture. Shelf Life is approx. 6 months in unopened original packaging

Health & Safety:

Contains cement – may cause skin and eye irritation. Avoid inhalation of dust. Use appropriate PPE; gloves, dust mask, and eye protection. In case of contact, rinse immediately with plenty of water. Refer to the latest Material Safety Data Sheet (MSDS) for full details

Technical Data:

Property	Value
Dry Powder Density	~1.55 – 1.65 kg/L
Wet Density	~1.90 – 2.00 kg/L
Compressive Strength (28 days)	≥ 25 MPa
Adhesion Strength	≥ 1.0 MPa
Water Absorption	Very Low
Water Repellency	Very Good
Water Penetration Resistance	Excellent
Chloride Resistance	High
UV Resistance	Excellent
Recommended Thickness	5 – 25 mm