



DESCRIPTION

UMIFOND HR 2C is a low-build, fast-drying, two-component epoxy-cementitious coating specially formulated for cementitious substrates, including those that are damp.

FIELDS OF APPLICATION

UMIFOND HR 2C is particularly suitable for following applications:

- Coating for deteriorated concrete structures, floors and walls, even where there is no vapour barrier.
- Intermediate coat on damp substrates intended to receive subsequent resin coatings.
- Pore-filling skim coat to level out micro-cracks in the concrete.
- Waterproof coating for walls and floors of concrete tanks intended for the storage of industrial water or fire-fighting water.
- Smoothing of balcony floors as a waterproof and frost-resistant layer, prior to tiling.
- Bonding primer for self-levelling cementitious coatings.

PACKAGING

Comp. A = 5 kg plastic buckets

Comp. B = 5 kg plastic buckets

CONSUMPTION

700 g/m² per coat

MIXING RATIO

The mixing ratio by weight is:

Comp. A : B = 1 : 1

FEATURES AND BENEFITS

- Easy to apply;
- Excellent adhesion to all building materials used in construction, such as: concrete, natural stone, concrete blocks, and lime-free cement plasters.;
- Good adhesion to damp surfaces;
- Excellent water barrier against back-pressure, even under pressure;
- Can be applied without difficulty both indoors and outdoors;
- Quick to apply at low cost;
- Can be overcoated with any system of epoxy, polyurethane or epoxy-polyurethane resins, in low, medium or high thicknesses;
- Once cured, with suitable waterproof finishes, it withstands water back pressure up to 5 bar;
- Operating temperature range from -35°C to +110°C (+65°C in immersed).

CERTIFICATIONS

UMIFOND HR 2C meets the requirements of standard UNI EN 1504-2: concrete surface protection systems (DoP n° 478).

ISO 9001 certified quality management system (Certificate No. IT.17.0227.01.QMS).

APSE S.r.l. is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

Surface preparation is essential; therefore, the surface to be treated must be free from any contaminants, dry, sound, and have a tensile strength of at least 1.5 MPa. In all cases, the floor surface must be prepared by milling, shot-blasting, grinding or sanding, depending on the type of surface.

Any free-standing or standing water originating from the substrate, previous washing operations or weather conditions must be removed or dried using appropriate methods.

UMIFOND HR 2C

FAST-DRYING TWO-COMPONENT EPOXY-CEMENT
COATING FOR DAMP SUBSTRATES



PRODUCT PREPARATION

A two-component product that must be thoroughly mixed just before use with a low-speed propeller mixer.

Mix all of component B with component A for a few minutes until a homogeneous mass of uniform colour is obtained, free from lumps and avoiding air bubbles.

It must be diluted with water (maximum 10%) or mixed with quartz in a ratio of 1:0.5, depending on the type and condition of the substrate, without diluting.

METHOD OF APPLICATION

should be applied using a roller, brush, trowel or spray, taking care to distribute the product evenly over the entire surface to be treated.

Apply the product at temperatures between +5°C and +30°C.

CURING

Refer to the table below for drying times (at 20°C) and curing times.

Pot-life	30-40 minutes
Touch dry time	4 hours
Rain-resistant	6 hours
Over-application	8 hours
Complete curing	15 days

WARNINGS

Do not use if the container is damaged.

CLEANING OF TOOLS

Tools used for preparing and applying UMIFOND HR 2C must be cleaned immediately after use with water, preferably lukewarm. Once the product has hardened, it can only be removed mechanically.

HEALTH AND SAFETY

For information on safety regulations, hazard and precautionary statements, please refer to the latest safety data sheet, by request at:

ufficiotecnico@apsebg.it

STORAGE

Shelf life 12 months, if stored in original packaging, in a cool, dry place.

Store at temperatures between +5°C and +35°C.

Sensitive to frost.

DISPOSAL

Dispose of contents and/or container in accordance with local regulations.



PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS OF THE MIXTURE (at +20°C)

CHARACTERISTIC	STANDARD	RESULT
Colour	-	White
Consistency of the mixture	-	Pasty
Density	EN ISO 2811-1	1.8 g/cm ³

PRODUCT PERFORMANCE IN ACCORDANCE WITH STANDARD EN 1504-2

CHARACTERISTIC	STANDARD	RESULT
Water vapour permeability	EN ISO 7783	S _D < 5m
Capillary absorption and water permeability	EN 1062-3	W < 0.1 kg/m ² xh ^{0.5}
Adhesive strength for direct traction	EN 1542	> 3.0 N/mm ²
Carbon dioxide permeability	EN 1062-6	S _D > 50m
Resistance to reverse hydrostatic pressure 250 kPa	UNI 8298-8	No water penetration
Adhesion to damp concrete	EN 13578	No blistering, No cracking, No flaking. Adhesion ≥ 3.5 N/mm ²
Reaction to fire	EN 13501-1	F _{fl}

The above data are information obtained based on our best technical knowledge, application, and research experience. However, since we are unable to intervene directly in site conditions and work execution, they represent general indications that do not bind APSE S.r.l. in any way. - V&V Group. The information given does not relieve the purchaser of his responsibility to personally test our products as to their suitability with regard to their intended use. The customer is also responsible for verifying that this data sheet is valid for the batch of product of interest to him and is not outdated as superseded by later editions. If in doubt, contact our Technical Department in advance. APSE S.r.l. - V&V Group reserves the right to make technical changes of any kind without prior notice. This revision cancels and supersedes all previous ones, all under the continuous verification of data according to the new current Standards and our ISO 9001 management system. Please feel free to check the most up-to-date version of this Data Sheet on our website www.apse.it

