

OVERVIEW

Weathercoat Hydra is a superior quality three-component flexible cementitious permanent waterproofing coating kit/system with good crack bridging properties. Weathercoat Hydra is specially formulated for protection and waterproofing of various dimensionally stable structures and flat roofs in both exposed and concealed applications. Weathercoat Hydra has longlife flexibility and it is available in limited range of pastel colours. It is applied by brush, roller or spray and after curing can be walked on uncovered.

PROPERTIES

Weathercoat Hydra is flexible polymer modified cementitious waterproof coating, supplied in three component kit (resin, powder, tint) – resin and powder to be mixed on site with the addition of tint before application.

Weathercoat Hydra Resin

Based on advanced acrylic resins, miscible with Weathercoat Hydro Powder in recommended proportions, highly resistant to alkalinity.

Weathercoat Hydra Powder

Based on special hydraulic cements, precisely graded fillers, wetting agents and adhesion promoters.

Weathercoat Hydra tint

Based on special weather resist pigments to provide selected colour to the waterproofing system.

ADVANTAGES

- Easy to mix and apply
- Application by brush, roller or spray
- Pot life of more than 1 hour at 30°C ambient temperature
- Excellent adhesion to dimensionally stable concrete/render.
- Crack bridging and elastomeric formulation
- Seamless permanent coating
- Vapour permeability – allows substrate to breathe.
- High Solar Reflective Index (for white colour).
- Fixed ratio kit system – no added water.
- Good weather resistance property.
- Low temperature flexibility.
- Excellent water impermeable coating. Suitable for under tile application.

AREAS OF USE

Weathercoat Hydra is suitable for waterproofing of concrete and masonry substrates where high degree of waterproofing and protection with different colours are required such as for:

- Concrete roofs (exposed and under tile application)
- Dry wall wet areas
- Decorative elements exposed to water sources like fountains.

PREPARATION OF SURFACE

Ensure substrates are clean and sound. Remove all existing coatings, cement laitance, unsound honeycombing, and spalling concrete by suitable mechanical means.

All dust, dirt and loose materials must be thoroughly removed by brush, broom or vacuum from the areas to be coated. Grind off all ridges and sharp projections. Scrape off all flaking material and remove oils, grease and other adhesion inhibiting substances. Mortar joints must be sound and finished flush with the blockwork.

Cracks and surface defects must be assessed and made good using suitable Terraco repair products.

At corner junctions (corner fillets are required), pipe entries and surface water drainage outlets it is a requirement to apply the respective Terratape reinforcing membrane or Terraco Joint Reinforcing Strip, prior to application of Weathercoat Hydra. (Site specific construction details are available on request)

Dry and porous substrates should be primed with Terrabond A (diluted 1:3 with clean water) or Terraco Waterproofing Primer (undiluted). Other surfaces should be saturated with water prior to application but no standing water should be present.

MIXING

It is recommended to mix full kits only.

Place the resin in a clean mixing vessel then empty the complete colour paste of Weathercoat Hydra tint in resin. Rinse the container with resin to empty entire colorant.

Slowly add the powder while mixing for at least 3 minutes with a slow speed mixer (200-600 rpm) until the mix is completely homogeneous and lump free. Ensure the blade remains below the surface of the mixture to minimize the entrapment of air and that no powder / tint remains unmixed on the sides and in the corners of the mixing vessel.

Leave to stand for at least 5 minutes to release any entrapped air. Mix again for 30 seconds before application. During application, ensure occasional stirring to keep the aggregates in suspension.

Notes:

Do not add water to adjust or re-temper the mix. Mix only required kits of Weathercoat Hydra that can be used within its pot life.

APPLICATION & CLEANING OF TOOLS

Weathercoat Hydra can be applied by brush, roller or spray equipment. When applying by spray please consult with the local Terraco Technical Department. Apply onto the freshly prepared substrate in 2-3 coats, applying each coat at right angles to each other, to a total thickness of 1.5-2.0 mm. Total consumption is 2.8-3.8 kg/m² (mixed Weathercoat Hydra). The total application thickness is required to be 1.5 mm under tiles and 2.0 mm for exposed areas.

Clean tools and equipment with water immediately after use.

CURING & DRYING

Curing and drying times depend on ambient temperatures, atmospheric humidity and thickness of coating.

Protect surfaces from wind and direct heat during application and curing. Do not apply in humid conditions >80%.

Weathercoat Hydra will be surface dry in less than 3 hours at 30°C.

Allow first coat of Weathercoat Hydra to dry for minimum 6 hours before over coating. Weathercoat Hydra should be left to cure for at least 7 days before water flood testing.

For under tile application, tiling work should be commenced after minimum 3 days of Weathercoat Hydra application.

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LIMITATIONS

Do not apply during rising temperatures to avoid the risk of outgassing resulting in pin-holing. Do not apply on bituminous coatings. For exterior areas, do not apply if rain is likely over the next 24 hours. Identification of structural movement joints in substrates is outside Terraco control. For further site specific details please consult with your local Terraco representative.

HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

PACKAGING & STORAGE

Weathercoat Hydra kit is supplied in plastic pail containing (Resin part in 5 kg in Jerrican, Powder part in 10 kg paper bag and small tint bottle.

When stored in their original sealed packaging in a clean, dry area and protected from high humidity, moisture, direct sunlight, and extreme heat and cold, shelf life is at least 12 months. Use oldest material first.

TERRACO offers a comprehensive range of products and services for most concrete and finishing needs. Please contact the TERRACO Technical Service Department or your local TERRACO agent for further information, samples, demonstrations and instructor services. The information given in this leaflet is based upon laboratory research, as well as extensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on TERRACO's present state of knowledge and is intended to provide general information on TERRACO's products and their methods of use. The prospective user is recommended to determine the suitability of TERRACO's suggestions and products before adopting them on a commercial scale.

TECHNICAL DATA

Product	Three component cementitious flexible waterproofing kit/system
Binders	Hydraulic and organic.
Colour	White and selected pastel colours
pH	11-13
Specific Gravity	1.60 ± 0.05
Pot Life at 30°C	1 hour
Adhesive Strength	>1.0N/mm ²
Min/Max Application Temperature	5°C to 40°C
Mixing Ratio	1 part resin : 2 parts powder (by weight) : tint (colour specific)
Coats	2 to 3 (minimum/coat-0.75 and maximum/coat-1.0mm)
Overcoat Time at 30°C	6 hours
Application Thickness	1.5-2.0mm
Material Consumption	Approximately 2.8-3.8 kg/m ² (mixed).
Packaging	5 kg resin in jerrican, 10 kg powder in paper bag, tint bottle.
Storage	12 months in original sealed packaging.

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