

HYCHEM Aero-Tuff Rapid

Epoxy and polyaspartic floor system for hangars, UV stable

Product Description

A UV-stable, Green Star certified, solid-colour epoxy / polyaspartic system with Skydrol resistance and customisable slip-resistance for aviation and aerospace facilities.

Technical Data

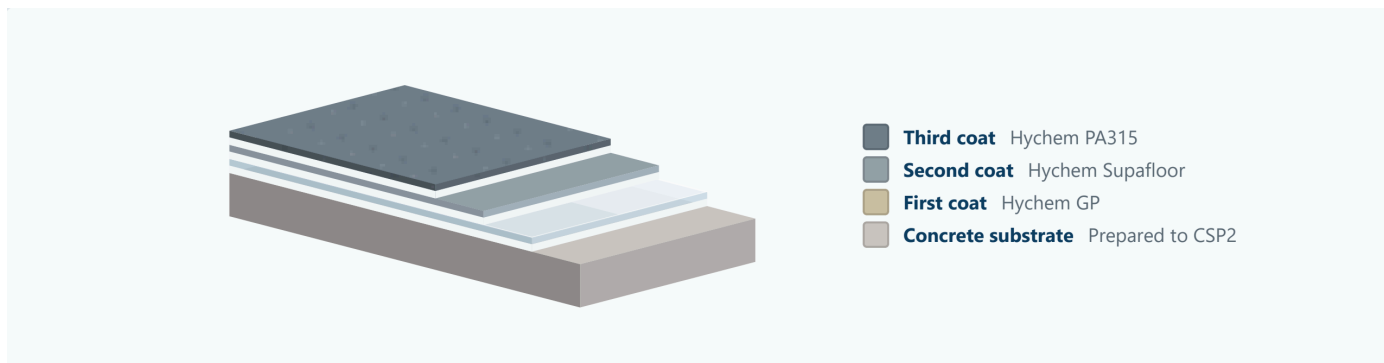
System name	Aero-Tuff Rapid
Finish	Gloss, slip resistant
*Service temperature	Up to +65°C
**Design life (years)	10 - 20
Colour / code	As nominated in Schedule of Finishes
Slip rating	As nominated in Schedule of Finishes

* Temperature resistance of the coating will be greater. However, the differential of expansion and contraction between substrate and the coating at higher temperatures may affect performance. Consult Hychem when higher service temperatures are expected.

** Design Life is based on an assumed level of 'wear and tear'. Actual duration until 'end of life' of the coating system may increase or decrease according to actual 'wear and tear'.

APPLICATION GUIDELINES

System build-up



Substrate

Requirement	Value
Substrate type	Concrete
Moisture content	< 5%
Adhesion test result	Min. 1.5 MPa
Compressive strength	Min. 25 MPa

Preparation

Diamond grind concrete to a uniform CSP2 profile (ICRI 310.2R). Vacuum all dust and friable material prior to priming. Confirm moisture content < 5%, compressive strength $\geq$ 25 MPa and surface tensile $\geq$ 1.5 MPa. New concrete to be cured a minimum of 28 days before application.

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Coat schedule

Coat	Product	Type	Consumption	Notes
First coat	Hychem GP	Clear Epoxy	6 m ² /L	Clear epoxy primer. Mix 3:1 by volume (resin:hardener). Pot life Approx. 15 min @ 20°C. Recoat Max 24 hrs. App. temp 8°C to 35°C, RH < 75%.
Second coat	Hychem SupaFloor	Pigmented epoxy	6 m ² /L	Pigmented epoxy intermediate / body coat. Mix 2.5:1 by volume (resin:hardener). Pot life Approx. 15 min @ 20°C. Recoat Max 24 hrs. App. temp 8°C to 35°C, RH < 75%.
Third coat	Hychem PA315	UV-stable pigmented polyaspartic	7 m ² /L	UV-stable pigmented polyaspartic topcoat; back-rolled with aluminium oxide aggregate for slip resistance. Mix 2:1 by volume (resin:hardener). Pot life 30 min @ 20°C. Recoat < 6 hrs if required. App. temp 8°C to 35°C, RH < 75%.

Joints

Depending on joint design, install Hychem Hyflex NS or Hyflex FC per Hychem's jointing methodology. Where joints are cut in the concrete, re-cut all joints after installation. Install closed-cell backing rod with a blunt tool. For joints up to 12 mm, set backing rod depth equal to width; for 13 mm and over, set depth at half the width. Tape both sides, install Hyflex NS, scrape flush and remove tape.

Supporting information — technical data sheets (TDS)

Doc ref	Product
TDS-01	Hychem PA315
TDS-02	Hychem SupaFloor
TDS-03	Hychem GP

Supporting information — safety data sheets (SDS / MSDS)

Product	Component
Hychem PA315	Part A (Resin)
Hychem PA315	Part B (Hardener)
Hychem SupaFloor	Part A (Resin)
Hychem SupaFloor	Part B (Hardener)
Hychem GP	Part A (Resin)
Hychem GP	Part B (Hardener)

Environmental Conditions

Temperature and the surrounding atmospheric conditions will play a part in the curing process of all resin products. Under conditions of low temperatures and high humidity the final cured surface finish can be adversely affected, potentially resulting in poor gloss retention, discoloration over time, poor overcoat ability and inter-coat adhesion. Quite often these conditions will result in the formation of a white film over the surface, often evident after contact with water. If this occurs, the existing coating will need to be abraded to completely remove the affected surface to ensure the adhesion of subsequent applications. In some cases, partial or complete re-priming may be necessary. Attention also needs to be paid to the substrate temperature, which should be at least 3-5 °C above the dew point during the curing phase. Industry standards recommend the accurate recording of environmental conditions such as substrate and air temperatures, humidity levels and dew point readings during both the application and curing processes. Full material warranties cannot be provided unless all the relevant data has been recorded accurately. If in doubt consult the HYCHEM technical department for advice.

Safety Precautions

Wear appropriate personal protection equipment. Gloves, eye protection, mask and overalls should be used during mixing and application. Ensure there is adequate ventilation and avoid breathing the vapour. Refer to the Safety Data Sheet for this product before use.

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Warranties and Disclaimers

HYCHEM warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. HYCHEM has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of the application tools, including trowelling, spray equipment etc. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by HYCHEM.

Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the product suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

Legal Notes

The information, and in particular the recommendations relating to the application and end-use of HYCHEM products, are given in good faith based on HYCHEM's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with HYCHEM's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. HYCHEM reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.