

HYCHEM PU200

Two pack non-yellowing polyurethane floor finish

Product Description

HYCHEM PU200 is a low sheen, pigmented polyurethane coating which is comprised of a 2-component, aliphatic resin technology. HYCHEM PU200 delivers superior protection, combined with an excellent decorative finish and UV colour stability. HYCHEM PU200 has excellent long-term resistance to external weathering.

Typical Applications

- Aircraft hangars
- Maintenance facilities
- Data Centres
- Plant rooms
- Factories
- Back of house and ancillary rooms

Features & Benefits

- Non-yellowing and UV resistant
- Skydrol resistant
- Durable
- Low sheen finish
- Slip-resistant options
- Scratch resistant
- Resistant to petroleum oils
- Versatile

Approvals / Certifications

- CRF Compliant

Technical Data

Composition	Aliphatic polyurethane (2-part)
Colour	Wide range
Solids Content	45 %
Gloss Level	Low sheen
*Service Temperature	Up to 65 °C
Chemical Resistance	Good resistance to acids, alkalis, aviation hydraulic fluids and most common solvents. Consult HYCHEM for resistance to specific chemical concentrations.

* 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.

Physical Properties

Scratch Resistance	Excellent
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APPLICATION GUIDELINES

Surface preparation

Prior to the application of HYCHEM PU200, the substrate must be thoroughly prepared.

- HYCHEM PU200 is designed for application over other coatings i.e. HYCHEM Supafloor or HYCHEM Universal. Application over other coatings is not recommended.
- The surface must be completely dry.
- All dust, loose and friable material must be completely removed from all surfaces prior to application.
- Remove all surface laitance, contaminants, existing coatings, curing compounds and any weak and loose materials.
- Mechanical sanding of the surface may be required e.g. for application of self-levelling epoxies, where high surface tension is a concern, where previous coatings have exceeded their recoat window or where surface contamination is a concern.

Pre-conditioning product

It is important to note that even when the application environment is warm, products which have been stored in cold or cooler conditions should be preconditioned, ideally to 20-25°C, to ease mixing and application and help avoid other potential issues such as amine bloom or blushing. Applying a cold product in a warm environment is not recommended.

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Mixing (roller application)

Mix HYCHEM PU200 resin with HYCHEM Utint pigment ensuring the pigment is thoroughly mixed. Mix HYCHEM PU200 Part A resin with PU200 Part B hardener at 3:1 by volume using a helical mixer at slow speed e.g. <500 rpm for 2 - 3 minutes. Do not over mix i.e. avoid unnecessary aeration. Dilution is not required.

Application (roller application)

Apply the mixed product at approximately 8 - 10 sqm/L by brush and roller.

Application Information

Mix Ratio (Part A to Part B)	3 : 1 by volume
Application Temperature	8 °C to 35 °C
Relative Air Humidity	< 75 % RH
Pot Life @ 23°C	Approx. 15 minutes (less in large volume)
Tack Free Time @ 23°C	3 - 4 hours
Recoat Window (Minimum - Maximum)	4 - 24 hours
Packaging — 20L Kit	13L Part A + 2L pigment + 5L Part B
Consumption (Roller)	8 – 10 sqm/L
Cure Time – Pedestrian	24 hours
Cure Time – Mechanical	48 hours
Cure Time – Full Chemical	7 days

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.

Shelf Life

12 months from date of manufacture when stored under shelter at 25°C in the original un-opened container.

Storage Conditions

The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between 5°C and 30°C.

Chemical Resistance

HYCHEM PU200 is resistant to jet fuel, aviation hydraulic system fluids, battery acids and caustic compounds, cleaners, detergents, degreasers, organic solvents and lubricating and de-icing fluids. Different epoxy products vary in their resistance to chemicals. Always ensure that the correct product is chosen for the service environment. If in doubt contact your HYCHEM representative or the HYCHEM technical department for advice. HYCHEM technical department for advice. It is highly recommended that a spill of any chemical is removed and cleaned as soon as possible.

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Colour

HYCHEM PU200 is supplied pigmented in a wide range of colours and is UV stable / non-yellowing.

Important Considerations

- This product may only be used by experienced professionals.
- Freshly applied product must be protected from damp, condensation and water during curing. External application should be when there is no risk of rain, condensation/dew, or excessive heat (including hot substrates).
- Ensure adequate ventilation during application and drying to avoid impaired reaction.
- Beware of condensation — the substrate and uncured floor must be at least 3°C above the dew point. If exposure to moisture occurs, the surface must be fully abraded to ensure no risk of amine bloom and subsequent delamination of top coats.
- Ensure consumption of material is uniform to achieve proper appearance, texture and consistent performance.
- If heating is required do not use gas, oil, paraffin or other fossil-fuel heaters. Use only electric-powered warm-air blower systems.
- For consistent colour, ensure material and pigments from the same batch are used for the entire floor/space.
- At low temperatures and low humidities (< 40% relative humidity), curing and recoat times will be affected.

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.