

HYCHEM SPECIFICATION



HYCHEM HYFLAKE SEAMLESS FLAKE FLOOR SYSTEM – APAS CERTIFIED

PRODUCTS

- Hychem SF20 – pigmented epoxy base coat
- Hychem Hyflake – decorative acrylic flake
- Hychem PA Glaze 3 – non-yellowing gloss polyaspartic clear sealer

SCOPE

A high solids decorative flake flooring system that offers excellent impact and chemical resistance to acids and solvents. Installed coating is seamless and immersion resistant that is fit for purpose for residential, commercial and school applications.

All resin products are APAS certified for VOC emissions, flammability, abrasion and impact resistance.

If required, an aluminium oxide aggregate is used to create a slip resistant floor finish (wet pendulum test according to HB198:2014).

APPLICATION GUIDELINES

The concrete substrate must be firm, clean and dry (damp) with a compressive strength of 25 MPa and a minimum surface tensile strength of 1.5 MPa.

- New concrete must be allowed to cure for a minimum of 28 days.
- Remove all surface laitance, contaminants, existing coatings, curing compounds and any weak or loose materials.
- Prepare the concrete surface to provide the appropriate concrete surface profile (CSP) for optimum mechanical keying.
- The extent of surface preparation required is dependent upon but not limited to the thickness of the coating system to be applied. It is highly recommended surface preparation is carried out in accordance with industry standards and publications such as NACE 02203 item No. 22420 or ICRI Technical Guideline No. 03732.
- Moisture content must not exceed 5% and ensuring no negative pressure
- 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 & air temperatures, humidity levels and dew point readings during both the application & curing processes. Full material warranties cannot be provided unless all the relevant data has been recorded accurately.
- Epoxy coatings should not be exposed to moisture during curing.
- Recoat windows are 36 hours for epoxy and 12 hours for polyaspartics.
- No induction required and materials can be diluted 10% with Hychem Solvent X to assist with application.
- Do not store materials in direct sunlight.

Preparation

The existing surface is to be mechanically prepared by diamond grinding the surface with 30/40# metal bond diamonds. The prepared surface shall show a CSP 2. Patch / fill any visible surface cracks with Hychem PF3.

Coving

If required install epoxy coving using Hychem GP epoxy and sand mortar. Prime with Hychem GP and install the coving mix to the required height.

First pigmented coat

Apply Hychem SF20 at 6m²/ltr.

Second pigmented coat

Apply Hychem SF20 at 6m²/ltr. Whilst wet broadcast Hychem Hyflake to refusal.

First clear coat

Apply Hychem PA Glaze 3 at 4 - 6m² / litre depending on the absorbency of the flake. Natural Stone finishes will require more product.

Final Clear coat

Apply Hychem PA Glaze 3 at 6 - 8m² / litre. If a slip resistant finish is required broadcast and backroll white aluminium oxide.

Curing

After final application of Hychem PA Glaze 3 the coated surface is allowed to cure for 36 hours to attain full chemical / mechanical cure.

Refer to Data Sheets for more specific information on application and environmental information.

Application techniques and coverage may vary depending on actual site conditions.

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.