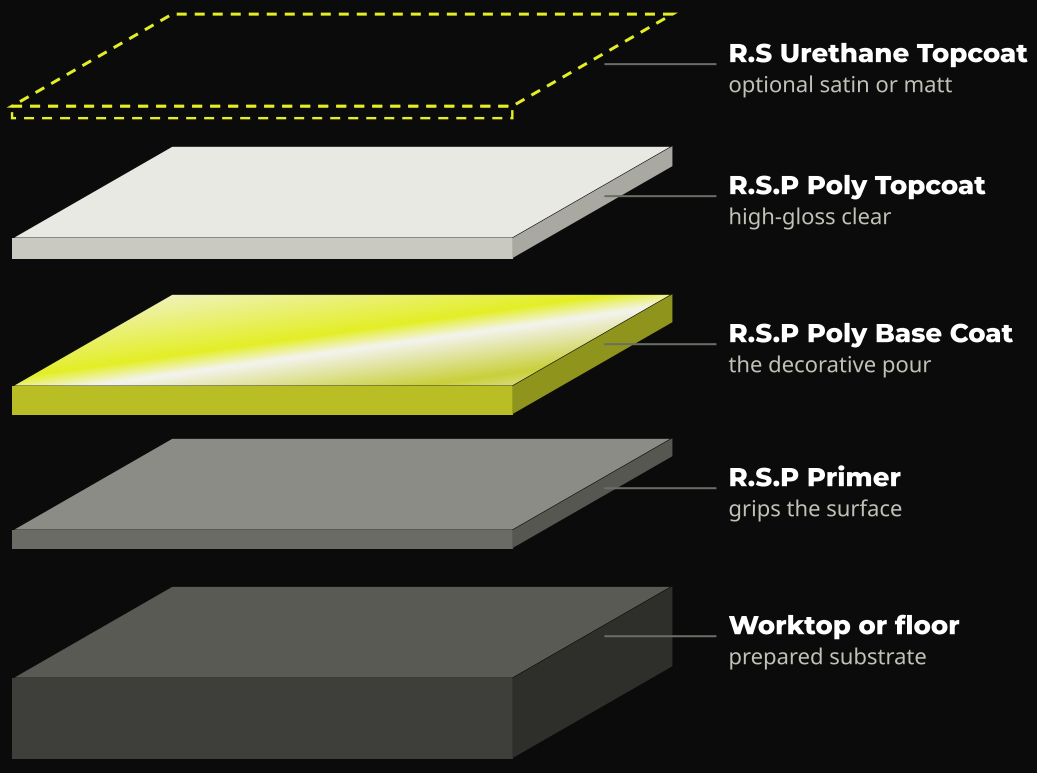
INFINITY EFFECTS

COMPARISON GUIDE · 2026

DECORATIVE POUR POLYASPARTIC

R.S.P Polyaspartic vs 2K paint and epoxy resin

How the Infinity Effects R.S.P range compares on worktops, floors and decorative pours: in the cold, against the clock, in sunlight and on site.



No heaters
Cures in the cold

6–8 h
To traffic with Fast Set

100% solids
Solvent-free

100% UV
Stable, so whites stay white

AT A GLANCE

Three chemistries, one clear winner for decorative work.

R.S.P is the Infinity Effects decorative pour polyaspartic range: a primer, a base coat and a topcoat that roll, spray, trowel or pour into seamless worktops, vanity tops and floors. It replaces older resin systems that yellow, crack and lose flexibility. Here is how it compares with the two systems it is most often measured against.

	R.S.P POLYASPARTIC	2K PU PAINT	EPOXY RESIN
Chemistry	**Hybrid polyaspartic**	Two-pack polyurethane paint	Two-pack epoxy resin
Cold weather	✓ **Cures without added heat. Cold slows it, but it still completes**	✗ Many need 15–18°C or more while curing	✗ Most won't fully cure below 10°C
Ready for use	✓ **Traffic after 6–8 h (Fast Set) · 48 h (Slow Set)**	✗ Final cure about 10 days at 20°C	~ Foot traffic about 12–24 h · full cure about 7 days
Recoat window	✓ **From 20 minutes, up to 12 hours**	~ Varies by product	~ About 8–24 h at 20°C
Solvent	✓ **100% solids, solvent-free**	✗ Solvent-borne, about 420–450 g/L VOC	~ Varies: solvent-free to solvent-borne
Sunlight	✓ **100% UV stable**	~ Depends on the formulation	✗ Shifts colour in UV
Film per coat	✓ **About 0.1 mm rolled, 0.7 mm poured**	✗ About 25–30 µm dry per coat	~ Depends on the grade
Movement	✓ **Flexible for heat-exposed areas and slight movement**	~ Thin film follows the substrate	✗ Rigid once cured
Application	✓ **Roll, spray, trowel or pour**	~ Mostly sprayed, in thin coats	~ Roll, trowel or pour
Looks	✓ **One to three colour pours from POLY and RAL; gloss, satin or matt**	~ Solid colours	~ Solid, flake and metallic effects

✓ Strong ~ Depends on the product ✗ Weaker

R.S.P: infinityeffects.com product pages, Nov 2026. 2K paint and epoxy: typical values from published data sheets (Hempel, Remmers, ColorWest, Derisol, Sika, Euclid Chemical); they vary by product. Always follow the data sheet for the product you use.

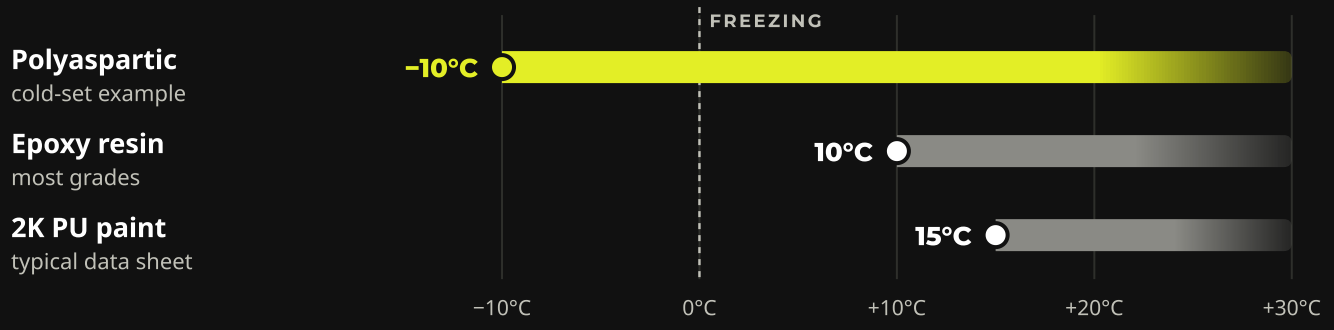
COLD WEATHER

Fit it in the cold. No heaters.

Polyaspartic chemistry keeps reacting when it is cold. A lower temperature slows the cure, but unlike epoxy the reaction still completes. That means R.S.P can go down in unheated garages, outbuildings and winter jobs without heaters, warming boxes or a warm spray booth.

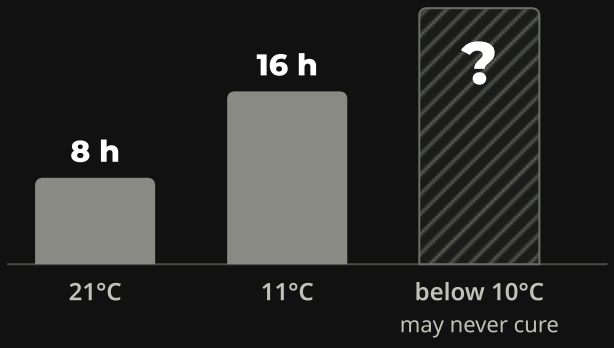
Typical minimum temperature to apply and cure

The coloured bar is the usable range, from the lowest temperature on typical data sheets upwards.



Epoxy slows sharply in the cold

Rule of thumb: cure time doubles for every 10°C drop.



EPOXY

Needs warmth to cure

Most epoxies never fully cure below 10°C unless they are made for the cold. Cold, damp conditions can also leave amine blush: a greasy white film that weakens adhesion and dulls the gloss.

2K PAINT

Needs a warm room

Typical 2K polyurethane data sheets ask for 15–18°C or more through application and cure, and many are force-dried at around 60°C.

WORKING WITH R.S.P

No heaters needed. R.S.P cures in cold, unheated spaces.

Slow Set gels in about 2 hours. Use it for medium to large areas and decorative pours.

Fast Set gels in about 20 minutes at 15°C, and quicker when warm. Keep it for small areas and quick turnarounds.

Need more working time? Heat speeds the cure; add Infinity Work Time Extender.

Polyaspartic cold cure: Coatings Pro Magazine, "Temperature effects on installing epoxies" (2021); cold-set polyaspartic example: Watco Cold Set Coating, applied between −10°C and +30°C. Epoxy: Euclid Chemical cold-weather guidance; amine blush below 10°C. 2K PU: Hempel Hempathane Fast Dry (surface above 15°C), Remmers PUR paints (18°C for 48 h), Teknos (forced drying at 60°C). R.S.P set times: infinityeffects.com.

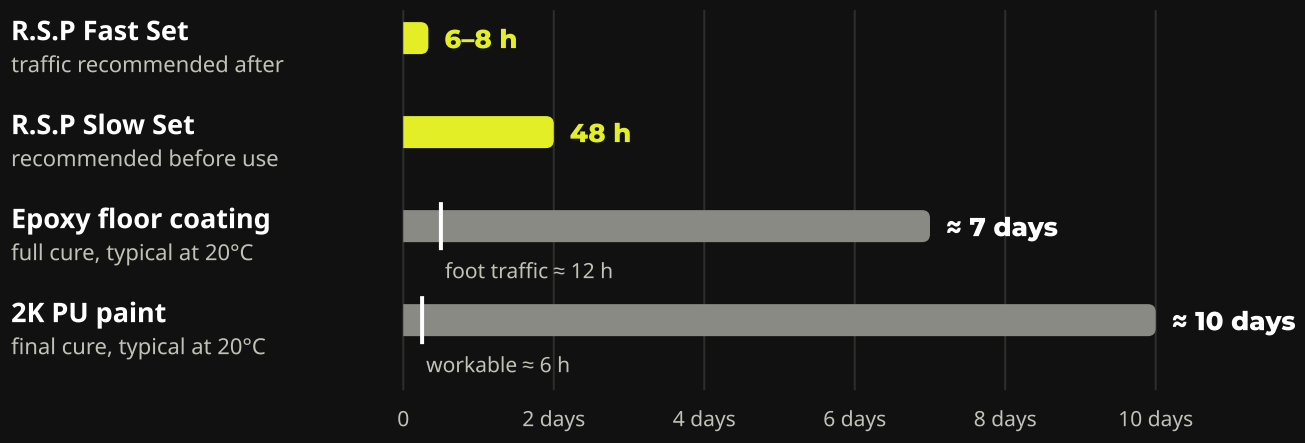
SPEED

Prime, pour, coat and use it the same day.

R.S.P Fast Set is dry in about 2 hours and ready for traffic after 6–8 hours, and each coat can be recoated from 20 minutes. A full countertop system can go down and be back in use in one working day. Epoxy and 2K paint ask for days, not hours.

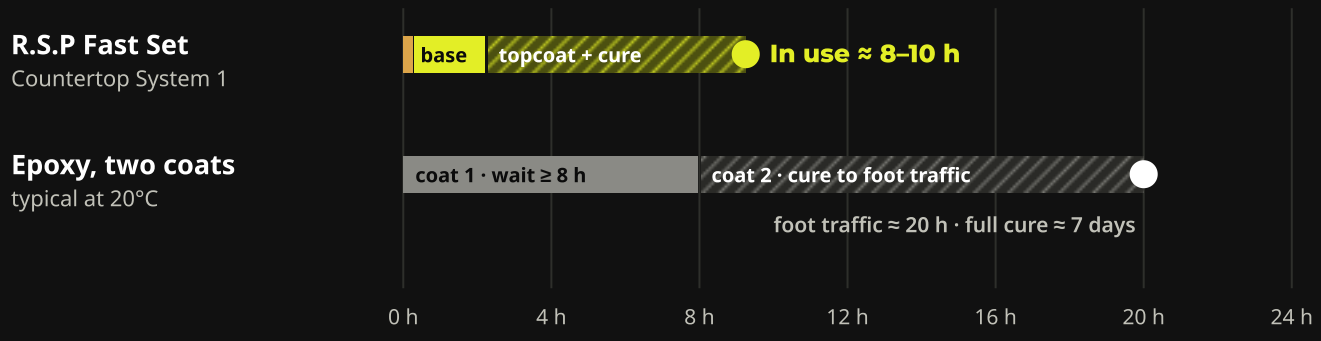
Time until ready for normal use, at about 20°C

R.S.P figures are the recommended times before traffic or use. Epoxy and 2K figures are full-cure times from typical data sheets; the white tick marks first light use.



A typical install day

R.S.P Fast Set: primer overcoated once tacky (15 min), base coat dry in 2 h, topcoat on, traffic 6–8 h later. Epoxy: second coat after at least 8 h, foot traffic about 12 h after that.



20 min

Minimum recoat time for R.S.P base coat and topcoat, up to 12 hours

8–24 h

Typical epoxy recoat window at 20°C, longer in the cold

R.S.P Fast Set and Slow Set times: infinityeffects.com (R.S.P Poly Base Coat and Topcoat). Epoxy: Sika Sikafloor-264 (foot traffic ~12 h, full cure ~7 days, recoat 8–24 h at 20°C). 2K PU: ColorWest 2K polyurethane topcoat (workable 6 h, final cure 10 days at 20°C). Times vary with temperature, humidity and film thickness.

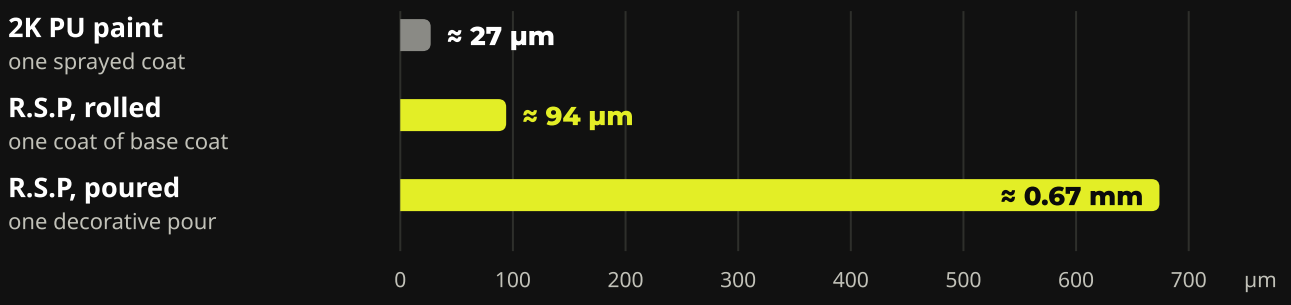
PERFORMANCE

More film per coat. Nothing to flash off.

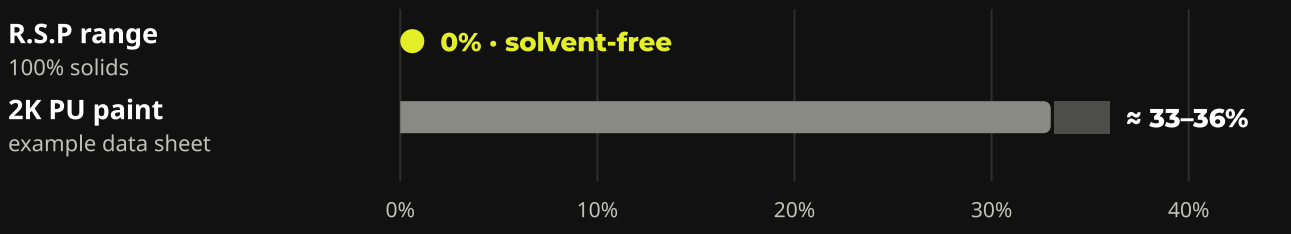
R.S.P is 100% solids, so everything you put down stays down. One rolled coat builds roughly the film of three or four coats of 2K paint, and a pour builds far more, with no solvent evaporating into the room.

Dry film per coat

R.S.P calculated from the stated coverage (≈10 m²/kg rolled, ≈1.4 m²/kg poured) and density (1.06 kg/L) at 100% solids. 2K: 50 µm wet at about 55% volume solids.



Solvent in the mixed product, by weight



SUNLIGHT

100% UV stable

R.S.P keeps whites white and colours true near windows and outdoors. Epoxy is known to shift colour in UV, so it needs a UV-stable topcoat where light reaches it.

WEAR

Flexible and hard-wearing

Flexible enough for areas exposed to heat and slight structural movement, with superior scratch and abrasion resistance and excellent chemical resistance.

FINISH

Gloss, satin or matt

High gloss from R.S.P Poly Topcoat, or satin and matt with an R.S Urethane overcoat. Slip resistance can be customised.

RESPONSIBLE

Solvent-free, low VOC

Formulated using CO_2 by-products and recycled materials, with no solvents to vent.

R.S.P: infinityeffects.com (100% solids, solvent-free, density and coverage, UV stability, flexibility, finishes, CO_2 by-products). 2K PU: ColorWest (50 µm wet, ≈55% volume solids, ≈450 g/L VOC); Derisol 2K (≈420 g/L VOC, solvent ≈33–36% by weight). Epoxy UV colour shift: published product literature.

THE R.S.P RANGE

Every layer, one system.

R.S.P Primer 3:1

The first step of every R.S.P system. A solvent-free hybrid epoxy primer that leaves a tacky surface for the pour to grip, and can act as a moisture vapour barrier on suitable prepared concrete.

100% SOLIDS
OVERCOAT 15 MIN–4 H
WHITE · MID GREY · BLACK

R.S.P Poly Base Coat 1:1

The decorative layer where the design is created. Clear or pigmentable, poured in one, two or three colours from the POLY and RAL ranges.

≈10 M²/KG ROLLED
≈1.4 M²/KG POURED
130+ COLOURS

R.S.P Poly Topcoat 1:1

A crystal-clear, high-gloss, self-levelling coat that protects and deepens the design, with an advanced UV-stabiliser package.

≈7.5 M²/KG ROLLED
≈1.4 M²/KG POURED
HIGH GLOSS

R.S Urethane Topcoat 4:1

Optional overcoat that changes the final sheen to satin or matt and adds extra protection.

OPTIONAL
SATIN · MATT

PolyFuse MAX 4:1

Flexible filler for cracks and voids before priming. Suitable from −25°C.

FLEXIBLE
FROM −25°C

P.HB Poly Screed 4:1:1

Screed base that levels and strengthens uneven or ungrindable concrete before the pour.

FLOOR SYSTEM 1
PIGMENTABLE

Fast Set or Slow Set: same price, your pace

R.S.P Poly Base Coat and Topcoat

	FAST SET	SLOW SET
GEL TIME	20 minutes (at 15°C)	2 hours
DRY	2 hours	24 hours (full dry)
READY FOR USE	Traffic after 6–8 hours	48 hours recommended
RECOAT WINDOW	20 minutes to 12 hours	20 minutes to 12 hours
BEST FOR	Small areas, quick return to service	Medium to large areas and decorative pours

Take care with Fast Set on medium to large areas: its working time is short, and shorter still in warm conditions.

All product details: infinityeffects.com R.S.P product and system pages, Nov 2026. Coverage depends on the surface and method; check the Technical Data Sheet before each job.

SYSTEMS AND VERDICT

Pick a system. We'll train you on it.

COUNTERTOP SYSTEM 1

Worktops and islands in busy homes and commercial kitchens. Four layers.

- R.S Urethane (optional)
- R.S.P Poly Topcoat
- R.S.P Poly Base Coat
- R.S.P Primer
- Substrate

FLOOR SYSTEM 1

Screed-based: levels and strengthens the floor first. Seven layers.

- R.S Urethane (optional)
- R.S.P Poly Topcoat
- R.S.P Poly Base Coat
- R.S.P Primer
- P.HB Poly Screed
- AdhesiMesh
- R.S.P Primer
- Substrate

FLOOR SYSTEM 2

Straight onto existing, properly prepared concrete. Four layers.

- R.S Urethane (optional)
- R.S.P Poly Topcoat
- R.S.P Poly Base Coat
- R.S.P Primer
- Substrate

CHOOSE R.S.P

For most decorative work

Cold or unheated spaces, same-day return to service, decorative pours that must stay colour-true in sunlight, and solvent-free installs indoors.

2K PAINT

Thin-film colour resprays

Where film build is not needed and a warm, ventilated spray area is available for the full cure.

EPOXY

Warm, controlled interiors

Where there is time to cure, the room stays above 10°C, and UV exposure is not a concern.

TRAINING · DOWNLOADS · ADVICE

Learn R.S.P at an Infinity Effects certified school.

Technical Data Sheets, SDS and application sheets: infinityeffects.com/infinity-downloads

infinityeffects.com
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Infinity Innovative Coatings Ltd t/a Infinity Effects
Unit 2B, 66 Killadeas Road, Enniskillen, Co. Fermanagh, BT94 2FN

System build-ups: infinityeffects.com R.S.P Countertop System 1, Floor System 1 and Floor System 2. Comparisons with 2K paint and epoxy use typical published values and vary by product; this guide does not replace the Technical Data Sheet.