Technical Data Sheet
PSP-90

Polyaspartic Coating
Two-component, 90% solids clear sealer that is UV stable, fast-curing, tough and trafficable.

DESCRIPTION
PSP-90 is a 90% solids elastomeric, clear or coloured polyaspartic that will not yellow, is fast-curing, tough and trafficable. It can be applied directly to prepared concrete or over PSP-90 coloured polyaspartic, to produce beautiful, durable floors in either flake finish or solid colours. With good pot-life, fast return to service, high-tensile strength and puncture resistance, it bridges hairline cracks and absorbs subtle movement in the substrate. It is also available in a range of UV stable standard colours suitable for most applications, including a version that increases surface friction.

ADVANTAGES / FEATURES

- Excellent UV resistance - non yellowing (However PSP-90 will not prevent yellowing of non-colourfast products such as primers and epoxies underneath).
- High resistance to chlorine and other chemicals
- Fast cure - rapid return to service
- Excellent gloss retention
- High adhesion to well-prepared substrates

APPLICATIONS
- Garage floors
- Commercial, industrial or residential flooring
- Food processing plant flooring
- Can be used in permanent immersion

COLOUR
Available in clear, black, white, beige, mid grey and light grey. Custom colours can be made upon request.

FINISH
Gloss smooth or optional non-slip finish that increases surface friction.

PRIMERS
Self-priming for fast application.

LIMITATIONS
- Gel time and thin-film dry times are heavily dependent on temperature, humidity and film thickness.
- Thicker films will take longer to cure through. High humidity and temperature will shorten thin-film cure time.
- Mix smaller batches in extreme conditions. Test the Gel time and thin-film dry times before commencing a large job. Stop application 5 minutes before the product gels in order to minimise air-bubble entrapment.
- Not to be used as a UV blocker to prevent discolouration of non-colourfast product underneath. The only way to ensure colour-fastness of product underneath is to use a coloured PSP-90

TYPICAL LIQUID PROPERTIES		
Property	**Part A**	**Part B**
Viscosity @ 25°C, [CPs]	1,800	115
Mixed [A+B] Viscosity [CPs]	N/A	
Specific Gravity @ 25°C	N/A	N/A
Solids Content, [wt %]	N/A	N/A
Mixed [A+B] Solids Content [wt%]	90%	
Mix ratio - Parts by volume	1	1

TYPICAL CURED PROPERTIES		
Property	**Test method**	**Results**
Mix Ratio	By volume	1:1
Hardness	Shore D	N/A
Hardness	Shore A	90
Elongation at 24°C	ASTM D412 06ae2	>30%
Abrasion resistance		N/A
Solids	A and B mixed	90%
Theoretical coverage		N/A

PROCESSING EQUIPMENT	
Roll-on or brush application	Paint roller or brush
Spray equipment	Airless Graco Equipment

CURING SCHEDULE Note: Cure time depends greatly on the temperature and conditions. Be sure to mix up a small amount first to test the pot life and gel time if unsure.	
Gel time	45 minutes
Touch dry	1 hour
Hard through	3.5 hours
Walk on (carefully)	2 hours
Cure time (95%)	24 hours
Full cure (and full physical properties)	48 hours

APPLICATION GUIDELINES

The following details provide general procedures to be followed for most applications of PSP-90. Correct substrate preparation is vital for a successful outcome. After standard preparation of steel or concrete, joints, corners and other surfaces, the following procedures should be followed.

DECORATIVE CONCRETE FLOOR COATINGS

CONCRETE - SOLID COLOUR - Apply PSP-90 directly to the concrete (two coats may be required if the concrete is porous). If the concrete is damp, oily or poorly prepared, prime with C3 DOP-epoxy before overcoating with PSP-90.

C3 FLAKE FLOORING SYSTEM - Follow above procedure and then broadcast the flake chips onto the coloured wet coat of PSP-90. When dry, remove excess flake chips by scraping and vacuum prior to application of PSP-90 clear top coats. For a non-slip finish, broadcast C3 non-slip into both clear top coats and back roll to achieve a uniform finish.

In all applications it is important to follow the guidelines outlined in each product's TDS. Each product must be fully cured prior to application of the following coats. (see Recoat Schedule in table below)

RECOAT PROCEDURES

RECOAT SCHEDULE FOR THE FOLLOWING SYSTEMS @ 25°C	RECOAT WINDOW
PSP-90 overcoat with PSP-90	1-4 hrs
C3 DOP Epoxy overcoat with PSP-90	4-72 hrs

TEST BEFORE USE

The procedures outlined in this Technical Data Sheet are not intended as specific application instructions. The amount used and final appearance will depend on the specific project undertaken and the experience of the applicator having used this product previously. Correct surface preparation, job-site conditions and adequate safety precautions are the responsibility of the coatings contractor. Test the product on a small area of the main job first before going ahead. Ensure that the quantities being mixed and used are not too much for the temperature and humidity of the day .

STORAGE AND HANDLING

Storage Conditions Keep containers well sealed. Part B is reactive to moisture. Refer to the SDS (Safety Data Sheet) for PSP-90 and follow all precautionary instructions.

HEALTH AND SAFETY ADVICE

Do not breathe dust / fumes / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Avoid release into the environment. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.

Specific treatment (see advice on label and Safety Data Sheet). If on skin: wash with plenty of soap and water. If in eyes: rinse cautiously with water for several minutes. Remove contact lens if present and easy to do so. Continue rinsing. Call a poison center or doctor if you feel unwell. If skin irritation or rash occurs get medical advice/attention. If eye irritation persists get medical advice/attention. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Always collect all spillage. Refer to Concrete Chemical Company Safety Data Sheets for individual products.

Important Notice

The information contained herein is offered without charge and is for use by technically qualified personnel at their own risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto.

Concrete Chemical Company
Suite 1005, 4/16 Beenleigh Redland Bay Rd,
Loganholme, Queensland, 4129 Australia
Ph: 1300 792 207
email: admin@concretechemical.co
https://www.concretechemical.co