

## PRODUCT DATA SHEET

## PACT-8000

Polyaspartic Polyurea



## DESCRIPTION

PACT-8000 is a two-component, 83% solids, low odor, water-clear aliphatic polyaspartic polyurea topcoat. It cures to a high gloss, aesthetic finish with excellent UV resistance to colour change. PACT-8000 provides superior durability with very good gloss retention, and improved chemical and solvent resistance.

## USES

PACT-8000 may only be used by experienced professionals.

- PACT-8000 is typically installed on industrial, commercial, or residential projects for its superior topcoat properties over solid colour or decorative multi-coloured aggregate or vinyl flake systems.

## FEATURES

- Easy to mix 1:1 ratio by volume.
- Fast cure times with excellent adhesion.
- Durable, impermeable, and seamless.
- Aesthetic, non-yellowing finish with very good gloss retention.
- Low-odor formulation.
- Superior abrasion and chemical resistance.
- Easily cleaned and maintained.

## CERTIFICATES AND TEST REPORTS

- Meets the requirements of CFIA and USDA for use in food plants.

## PRODUCT INFORMATION

Packaging	Component A:	3.78 L (1.0 US gal.)	18.9 L (5.0 US gal.)
	Component B:	3.78 L (1.0 US gal.)	18.9 L (5.0 US gal.)
	Components A+B:	7.57 L (2.0 US gal.)	37.85 L (10.0 US gal.)
Shelf life	12 months in original unopened container under proper storage		
Storage conditions	Store dry between 5 °C and 32 °C (41 °F and 89 °F)		
Colour	Water-clear		
Volatile organic compound (VOC) content	< 230 g/L		

## TECHNICAL INFORMATION

Shore D Hardness	~75
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## APPLICATION INFORMATION

<b>Mixing ratio</b>	A:B = 1:1 by volume		
<b>Consumption</b>	5 m <sup>2</sup> /L to 12.5 m <sup>2</sup> /L (135 ft <sup>2</sup> /US gal to 200 ft <sup>2</sup> /US gal) at 8 mil to 12 mil w.f.t.  Note: Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Test sections are recommended to establish correct coverage.		
<b>Material temperature</b>	Condition the product at temperatures between 18 °C to 30 °C (65 °F to 86 °F) before using.		
<b>Ambient air temperature</b>	Minimum: 10 °C (50 °F)	Maximum: 30 °C (85 °F)	
	Mixing and application attempted at material, ambient and/or substrate temperature conditions less than 18 °C (65 °F) will result in a decrease in product workability and slower cure rates.		
<b>Relative air humidity</b>	Min. 30 % Max. 75 % (during application and curing) Note: Low Relative Ambient Air Humidity may result in slower cure.		
<b>Dew point</b>	Substrate must be at least 3 °C (5 °F) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.		
<b>Substrate temperature</b>	Minimum: 10 °C (50 °F) Maximum: 30 °C (85 °F)  Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapour drive at the time of application.		
<b>Substrate moisture content</b>	Moisture content of concrete substrate must be ≤ 4 % by mass (pbw – part by weight) as measured with a Tramex <sup>®</sup> CME / CMExpert type concrete moisture meter on mechanically prepared surface.		
<b>Pot Life</b>	~45 minutes at 23 °C (73 °F)		
<b>Curing time</b>	<b>Ambient &amp; Substrate</b>	<b>Tack Free</b>	<b>Full Cure</b>
	Temperature 23 °C (73 °F)	~5 hours	~72 hours
	<ul style="list-style-type: none"> <li>▪ Curing times will vary according to ambient air and substrate temperatures and relative humidity.</li> <li>▪ Freshly applied material should be protected from dampness, condensation, and water for at least 48 hours.</li> <li>▪ Mechanical, chemical, and physical properties will be fully achieved at full cure.</li> </ul>		
<b>Waiting time to overcoating</b>	<b>Ambient &amp; Substrate</b>	<b>Minimum</b>	<b>Maximum</b>
	Temperature 23 °C (73 °F)	~5 hours	~24 hours
	Note: If the Waiting/ Recoat time has passed the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean-up and before applying the next coat.		

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained

under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test

methods.

Properties tested at 23 °C (73 °F) and 50% R.H. unless stated otherwise.

## LIMITATIONS OF USE

- Any aggregate used with CTM systems must be non-reactive and oven dried.
- Do not apply on porous surfaces where a transfer of moisture vapour may occur during application.
- This product is not designed for negative side waterproofing. Application of a coating on a concrete substrate in contact with the ground, without a functioning below slab moisture barrier, increases the risk of detachment.
- Typically, not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Do not apply to substrates exposed to extreme thermal shock.
- Direct-fired gas or kerosene heaters produce by-products that can have adverse effects on the curing product. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as amine blush, whitening, loss of adhesion or other surface deficiencies.
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings, and detritus from the surface by appropriate mechanical means such as shot blasting, grinding or other mechanical means to achieve an open surface profile equivalent to ICRI / CSP 3 – 4 similar in texture to fine sandpaper. The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of application of PACT-8000.

### MIXING

**Mix Ratio: Components A:B = 1:1 (by volume).** Do not hand mix PACT-8000 materials. Mechanically mix only.

Pre-mix each component separately. Empty Component B (Hardener) in the correct mix ratio to Component A (Resin). Mix the combined components for at least three (3) minutes, using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use an Exomixer® or Jiffy type mixing paddle (recommended model)

suited to the volume of the mixing container. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once, to ensure complete mixing. When completely mixed, PACT-8000 should be uniform in colour and consistency. Mix only that quantity which can be used within its pot life.

### APPLICATION

**Finish Coat:** Once the prime coat is tack-free, apply the finish coat using a brush, squeegee, and backroll to achieve even coverage.

Note: If the Waiting/ Recoat time has passed the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean-up and before applying the next coat.

### CLEANING OF EQUIPMENT

Clean all tools and equipment with Xylene. Once hardened, product can only be removed mechanically.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika'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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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Product Data Sheet

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