

K100FLEX

TECHNICAL DATA SHEET

Rev. 12-2019



Physical Properties

VOC CONTENT

0 g / L

RECOMMENDED APPLICATION THICKNESS

8 mils per coat

SHELF LIFE

12 months unopened.
Store at 40°F to 100°F in a covered area (out of the sun).

POT LIFE

15 to 20 minutes

MINIMUM RE-COAT

2-3 hours minimum

LIGHT FOOT TRAFFIC

12 hours

MAXIMUM RE-COAT

24 hours
(contact manufacturer)

MIXING RATIO

1.0 part A; 1.0 part B

ADHESION TESTING

500 PSI Substrate Failure

TENSILE STRENGTH

ASTM D 638
4,500 to 5,000 psi

IMPACT RESISTANCE

Direct/Reverse 160/160

FALLING SAND ABRASION RESISTANCE ASTM D 968:

Clear — 30 liters sand/1 dry mil
Pigmented — 38 liters sand/1 dry mil

MANDREL BEND, ASTM D 522

Passes, no cracking,
1/8" mandrel bend

POLYASPARTIC ALIPHATIC POLYUREA

DESCRIPTION

K100FLEX is a low viscosity, high-solids aliphatic polyisocyanate hardener and polyaspartic coating system. K100FLEX is a self-leveling system featuring fast cure, excellent adhesion, and high-film build. The system can be used for both decorative and protective applications as it exhibits outdoor durability, chemical resistance, skydrol resistance, and light-fastness as well as high gloss and color retention. The material is applied in single or multiple coats by brush, roller or squeegee to vary thicknesses to a variety of substrates including concrete and metal. It can be applied as a top coat employed within multi-build chip/quartz seamless coating systems.

K100FLEX provides excellent impact, abrasion, and chemical resistance characteristics. Suitable for high traffic interior or exterior applications, the material is ideal for clear topcoat sealer applications over commercial applications, industrial facilities, swimming pool decks, and parking garages.

FEATURES AND BENEFITS

- Walk-on in hours, 24-hour return to service
- No odor, no VOCs
- Outstanding mechanical properties including flexibility, abrasion resistance, and low viscosity
- UV-resistant; retains optical clarity of clear sealer/finish
- Maximum re-coat time: 24 hours
- Low temperature cure (25°F)
- Excellent chemical and stain resistance, resistant to skydrol
- Resistant to hot-tire pickup
- Micro-media agents can be introduced as traction additives
- Tolerant to 300°F for random, incidental heat contact
- Meets FDA/CFR, U.S. Food Code, physical facilities criteria as outlined in 6.100.11 Surface Characteristics USDA acceptable. Not intended for 21 CFR food contact.
- Excellent weatherability, durability, solvent and chemical resistance, color retention and gloss retention

TYPICAL USES

- Multi-coat commercial and industrial solid color concrete/metal coating system consisting of multiple pigmented coats and clear top coat(s)
- Suspended concrete slabs
- Concrete tanks
- Flooring systems
- Concrete sound barrier walls
- Decks

COVERAGE

MILS	Sq. ft. per coat/gallon
4-MILS	401
5-MILS	321
6-MILS	267
7-MILS	229
8-MILS	200
9-MILS	178
10-MILS	160

Coverage rate is theoretical and may vary due to the porosity and profile of concrete.

Material should be kept in a cool dry place prior to application.

MIXING DIRECTIONS

Mixing Part A with Part B:

Mix K100S92 and H92Flex in equal parts (1:1) using a clean, dry working vessel. Use a paddle mixer on slow speed for 2 minutes. Avoid overmixing or creating a vortex that would introduce air. Do not mix below the dew point, which will shorten the pot life. No induction time is required prior to use. If micro-media agents are to be incorporated, they are to be added after thoroughly.

APPLICATION

Suggested application thickness is 8 mils or 200 ft per coat, per gallon. Refer to ACP tech docs directly for specifics on effective application techniques. Maximum application mil thickness in a single application is 10-12 mils. Material will be dry to the touch 2-3 hours after application, dependent on ambient temperature, slab temperature and humidity. Product may be re-coated within 2-24 hours following application. Light foot traffic is acceptable 12 hours following application and vehicular traffic is acceptable 48 hours after application.

CLEAN UP

Use MEK or Acetone

PACKAGING

2 gallon kit, 10 gallon kit, 100 gallon kit

SAFETY

Polyaspartic aliphatic polyurea products contain chemical ingredients that are considered hazardous. Read the container label warning and Safety Data Sheet prior to use.



WARNING: DO NOT ALLOW TO FREEZE