westcoat®
SPECIALTY COATING SYSTEMS

PRODUCT SPECIFICATION

EC EPOXY COAT
DURABLE RESINS & HARDENERS

EC-102 Polyaspartic

Description
EC-102 is a two component, 80% solids, polyaspartic, available in clear and pigmented. EC-102 Polyaspartic is designed to be used as a topcoat for many of the Westcoat Epoxy Systems. It provides a high gloss, fast drying, medium-build finish with outstanding wear resistance.

Uses
EC-102 can be used interior or exterior and is specified as the finish coat for use in moderate chemical environments or in moderate traffic areas. EC-102 may be applied over a variety of Westcoat epoxies, such as EC-12 and EC-34 and can also be applied over TC-60 Color Chips and TC-65 Quartz Sand. Use EC-102 on industrial floors, garage floors, decorative floors, restaurant floors, food processing facilities, automotive service areas, airplane hangars, commercial pool decks or where a medium build and high sheen is desired. EC-102 is also the standard topcoat for the Liquid Granite™ and Liquid Terrazzo™ systems.

Advantages
USDA/FDA Compliant ▪ Medium Viscosity ▪ Chemical Resistant ▪ UV Resistant ▪ Low VOC Content ▪ Fast-Drying ▪ Resistant to Tire Staining

Product Data			
Packaging	2 gal & 10 gal kits available	**Color**	Clear & Pigmented
Coverages	~120-400 ft² / US gal.	**Mix Ratio**	1:1 (By Volume)
VOC Content	Clear: <25 gm/l | Pigmented: <50 gm/l	**Shelf Life**	2 years in unopened packaging

Inspection
Surface must be structurally sound, dry and free of laitance, oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. When applying EC-102 over an epoxy coating, ensure that the material is properly bonded to the substrate.

Preparation
EC-102 may be applied over Westcoat epoxies, such as EC-12 or EC-34 after the surface is dry to the touch, but no later than 24 hours (@ 72°F). If delay occurs and recoating exceeds 24 hours, it is recommended that the surface be lightly sanded and solvent wiped with denatured alcohol before applying EC-102. A test area should be performed to verify adhesion when recoating. For additional information on preparation, please refer to the desired System Specification Sheet for further information regarding Surface Preparation. Surface should be prepared per industry standard.

Mixing
Premix each component separately. In a clean bucket, mix 1 part A with 1 part B, by volume of EC-102. Mix thoroughly with a low speed (400-600 rpm) drill motor for 2-3 minutes. Make sure to scrape the sides and bottom of the container during mixing. After mixing has been completed, promptly remove material from container.

Thinning
EC-102 may be thinned with up to 50% CA-23 ThinCoat - Medium Solvent, by volume, when used as a sealer. Typically 5-10% thinning is adequate when applying as a topcoat. If thinned, it must be applied thinly enough to allow solvent to escape. Do not allow material to puddle. Thinning will increase working time.

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Applying Product
Immediately after mixing, pour activated product on the substrate. Squeegee and back roll the material at a rate of 120-400 ft² / US gal. DO NOT OVER ROLL. For best results, apply multiple thin coats. Recommended dry film thickness (DFT) for garages, aircraft hangars and floors with wheel traffic is 2-6 mils.

Re-coating
Re-coat if needed, within 24 hours of application to insure adhesion. If a delay occurs, it is recommended that the surface be lightly sanded and wiped with denatured alcohol just before reapplication. A test area should be performed prior to all re-coats.

Dry Time
You may re-coat as soon as the surface is dry to the touch (~3 to 5 hours @ 72°F), but no later than 24 hours. Light foot traffic may be permitted in 8 hours, normal traffic in 24 hours and vehicle traffic in 72 hours. All times are based on average temperature of 72°F and 50% humidity. Dry times may increase slightly when solvent is added.

Clean Up
Uncured material can be removed with a solvent. Cured material can only be removed mechanically.

Limitations
- This product is designed for professional use only.
- Be sure to measure and mix properly.
- Exceeding the maximum thickness per coat of ≤ 6 dry mils may reduce the hardness of the EC-102 and may increase the chance of tire staining.
- Permitting tire traffic prior to the 72 hour cure, may lead to plasticizer migration or tire staining.
- When thinned, coverages will be extended and material should never be allowed to puddle.
- Material should be preconditioned for a minimum of 24 hours at 65° to 75°F.
- Do not apply when ambient or substrate temperatures are below 50°F or above 85°F. Hot or cold weather will affect dry times.
- Be cautious of condensation, which may result in blushing or adhesion failure.
- High humidity will reduce the working time and dry time. Low humidity will increase dry time.
- EC-102 must be cured for a minimum of 48 hours before coming in contact with water.
- Skid resistant additives are available, such as CA-30 or CA-31
- EC-102 should not be applied directly over EC-11 Water-Based Epoxy Primer.
- Do not allow Westcoat products to freeze.
- Product has odor.
- Product reaches full cure after 96 hours @ 72°F.

Health Precautions
Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. Avoid breathing vapors, it is strongly recommended that respirators are worn. Prolonged or repeated skin contact can cause slight skin irritation. All epoxies have the potential of causing skin irritations or allergic reactions. Be careful not to get on skin, clothes or in eyes. Gloves are strongly recommended. If splashed in the eye, flush with warm water and contact a physician if blurring persists. Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

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Technical Data

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Tack Free over concrete @ 72°F	105 min	44 min	35 min
Foot Traffic over concrete @ 72°F	328 min	77 min	65 min
Foot Traffic - sealed surface @ 77°F	350 min	150 min	85 min
Wheel Traffic	72 hr.	72 hr.	72 hr.
Pot Life (Gel Time) 150gm @ 77°F	60 min	40 min	25 min
Heat Resistance (max)	220°F	220°F	220°F
Adhesion on steel ASTM D3359	5	5	5
Adhesion on concrete ASTM D3359	5	5	5
Impact Resistance in-lbs direct/reverse	>250 psi (concrete fails)	>250 psi (concrete fails)	>250 psi (concrete fails)
Hardness Shore D (ASTM D2240)	76	76	76
Pencil Hardness	2H	2H	2H
Reducer/Clean Up	CA-23	CA-23	CA-23
Abrasion Resistance (ASTM D4060)	36 mgs	36 mgs	36 mgs

Chemical Resistance	Clear & Pigmented
Muriatic Acid (31.5% HCL)	5
Sulfuric Acid (50% H2SO4)	5
Sulfuric Acid (93% H2SO4)	1
Nitric Acid (10% HNO3)	5
Sodium Hydroxide (50% NaOH)	5
Isopropyl Alcohol (99%)	5
Bleach (sodium hypochlorite)	5
Vinegar (3-5% acetic acid)	5
Transmission Fluid	5
Gasoline	4
Brake Fluid	5
409 Surface Cleaner	5
Pine Sol Solution	5
Blood & Body Fluids	5
Iodine Solution	5
Mustard	5
Ketchup	5/5
Red Wine	5/5
Acetone	4
Methyl Ethyl Ketone (MEK)	4
Xylene	5
Skydrol	3s
Ethanol	5
Methanol	5

Physical Properties	Clear	Pigmented
Weight/gal (mix)	9.0	9.0-10.0
Gloss @60 Degree	90	90
Solids %/wt (mix)	80	79
Solids %/vol (mix)	80	79
Viscosity cPs (mix)	405	440-510
Viscosity KU (mix)	58	63-73
VOC gm/l (mix)	<25	<50
Shelf Life	2 years	2 years
Color (gardner)	1	1

Key:
5 = Best (no effect)
4 = Softens (recovers)
3 = Softens (no recovery)
2 = Blistered (no recovery)
1 = Worst (destroyed)
s = Stains but resists degradation

Testing done per ASTM D1308
All Single Numbers = 2 hr Contact time
All Multiple Numbers Separated by a Slash = 2 hr contact time / 24 hr contact time