

# EuroKem<sup>FM</sup> 100

HIGHLY CHEMICAL RESISTANT EPOXY-URETHANE  
FLOOR AND LINING SYSTEM



## PRODUCT DESCRIPTION

EuroKem<sup>TM</sup> 100 Flex is a resin rich, protective system for exterior secondary containment areas. This system is used to coat or line concrete substrates in chemically aggressive industrial environments subjected to expansion and contraction due to temperature variations. An optional fiber glass matt may be used for upgraded chemical resistance and thermo cycling. Chemical resistant aliphatic urethane topcoat provides additional protection, UV stability and superior abrasion resistance. EuroKem<sup>TM</sup> 100 Flex will withstand exposure to a wide range of acids, caustics, combustibles and solvents. EuroKem<sup>TM</sup> 100 Flex is designed to protect secondary containment, trenches, floors, troughs and pits from chemical attack.

## PHYSICAL PROPERTIES

**Composition:** 100 % solids CR epoxy resin  
with CR aliphatic urethane  
finish

**Thermal Cycling** No cracking (ASTM C884)

**Compressive Strength:** 7,000 psi (ASTM C-579)

**Tensile Elongation:** 1,200 psi (ASTM C-307)

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**Elongation @ break** 120% (ASTM D412)

**Adhesion:**

**To Steel:** 2,600 psi (ASTM D-4541)

**To Concrete:** 350-400 psi (100 Flex% concrete failure) ACI-COMM #403

**Hardness:** 50 Shore D (ASTM D2240)

## SPECIFICATIONS

**Preparation:** Surface must be properly prepared to ensure adequate bond to the substrate. Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion. Consult EuroCoat surface preparation bulletin for full details. Minimum surface temperature is 50 F; preferred is 65-75 F.

## QUICK GUIDE

### TYPICAL USES

EuroKem<sup>TM</sup> 100 Flex is designed as a superior chemical resistant floor and lining system for areas requiring impact, thermal shock and chemical protection. EuroKem<sup>TM</sup> 100 Flex may be used as a protective surface on new concrete floors, or to restore worn and damaged surfaces.

EuroKem<sup>TM</sup> 100 Flex is excellent for plating process areas, mining industry, petrochemical industry, food processing facilities, breweries, bottling plants, chemical laboratories.

### ADVANTAGES

1. Excellent resistance to a broad range of chemicals
2. Excellent impact and thermal shock resistance
3. UV stable
4. Anti slip resistance (optional)
5. Low maintenance
6. Complies with VOC regulations

### COLOR OPTIONS

EuroFlex<sup>TM</sup> 100 is available in Light Gray, Almond, Mint and Light Blue. Special colors available upon request. Consult EuroCoat Technical Department.

### Concrete floors and secondary containment:

- Priming: Use EuroCoat 110 or 115 primer at 200 sqf per gal.
- Scratch coat: (Optional) Apply a coat of EuroCoat 120 epoxy binder with EuroCoat filler at a rate of 20 to 40 sqf per gallon mixed as a resurfacer.
- Patching: Use EuroCoat 140 epoxy patch to fill voids and to provide a continuous substrate.

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- Flexible membrane: Apply a 20-40 mil coat of EuroCoat 128 Flex CR membrane. Install a 1.0-1.5 oz fiberglass mat.
- Flexible membrane: Apply a second coat of neat EuroCoat 128 Flex CR membrane at 20 mils. 20 mesh silica sand may be added to create anti-slip texture.
- Topcoat: Apply two coats of EuroCoat 330 CR aliphatic urethane as finish coats at a rate of 300 sqf per gallon each.

## TESTING

The technical data contained herein is the result of tests made in EuroCoat's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

## SAFETY PRECAUTIONS

Refer to the MSDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your EuroCoat representative for additional technical data and instructions.

## CHEMICAL RESISTANCE

See EuroCoat's, Chemical Resistance Guidelines for chemical resistance of a product or system.

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, EuroCoat recommends products or system to be tested in accordance with intended end use.

## CLEANING

Clean spills and spatters immediately with MEK or proprietary solvent. Clean tools immediately after use with MEK. Follow manufacturer's safety recommendations when using any solvent.

**Disclaimer:** Any recommendation or suggestion relating the use of the products made by EuroCoat, whether in its technical literature, or in response to a specic enquiry, or otherwise, is based upon data believed to be reliable, however the products and information are intended for use by Customers having requisite skill and know-how in the industry and therefore it is the Customer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that the Customer has done so at its sole discretion and risk.

## LIMITATIONS

1. Substrate must be above 50oF (10oC), dry and free of excessive water vapor transmission with a relative humidity below 85% at time of installation.
2. Moisture vapor transmission (MVT) in excess of 3.0 lbs/100 Flex0 sq/ft/per 24 hr period per ASTM F1869, may result in delamination, discoloration or improper curing.
3. New concrete should be at least 28 days old for system installation.

## WAREHOUSING

- Do not expose material to direct sunshine or heat. Use a dry and cool area for stocking.
- Warehousing temperature must be between 4-23 °C (39-74 °F)
- Shelf life: six months.
- Keep the material in its original packaging.

## WARNINGS

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN EUROCOAT INVOICES ARE MET.

EuroCoat warrants to the purchaser of its products that such products are free from manufacturing defect. EuroCoat does not warrant or guarantee the workmanship performed by any person or firm installing its products. EuroCoat's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which EuroCoat sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which EuroCoat's examination shall disclose to EuroCoat's satisfaction to be thus defective.