

# FLEXI-GARD 500-S, 500-S90

## HEAVY DUTY EPOXY FLOOR COATINGS

### DESCRIPTION

**FLEXI-GARD 500-S and 500S-90** are high solids, VOC-Compliant heavy duty epoxy coatings designed for protection of concrete floors and decks. They are available in clear or pigmented versions.

**FLEXI-GARD 500-S** is a 100% solids, low viscosity, odorless modified epoxy coating. It offers excellent hardness and chemical resistance and is recommended for general commercial and industrial use, particularly in interior applications where solvent vapors and odors cannot be tolerated. **FLEXI-GARD 500-S** is USDA accepted for use in incidental food contact areas in Federally inspected meat and poultry packing plants.

**FLEXI-GARD 500-S90** is a lower viscosity, solvent-reduced epoxy coating supplied at 90% solids by weight to achieve higher spread rates for greater economy. It is V.O.C. Compliant (<400 g/l). **FLEXI-GARD 500-S90** forms very hard, high gloss films which resist high traffic and a wide range of chemical exposures.

### ADVANTAGES:

- ✓ **Ease of application** by roller or appropriate spray equipment assures consistent results and high productivity.
- ✓ **Fast strength development** allows minimum downtime and quick return to service, even in heavy traffic exposures.
- ✓ **High strength** permits long-term performance in forklift and other vehicular traffic exposures.
- ✓ **High gloss and clarity** permit the achievement of excellent aesthetic results.



### TECHNICAL DATA:

| PROPERTY         | 500-S   | 500-S90                       |
|------------------|---|-------------------------------|
| Composition      | 100% Solids Modified Epoxy; "0" V.O.C.                              | 90% Solids Modified Epoxy     |
| Mix Ratio        | 2:1 by Volume   | 2:1 by Volume                 |
| Viscosity        | 220-450 cps   | 150-250 cps                   |
| Pot Life         | 20-30 mins. at Room Temp.   | 20-30 mins. at Room Temp.     |
| Coverage         | 80-120 sq. ft./gal. per coat  | 150-175 sq. Ft./gal. Per coat |
| Film Build       | 14-18 mils per coat (does not include optional anti-slip aggregate) | 8-10 mils per coat            |
| Elongation       | 2%  | 2%                            |
| Tensile Strength | 2000 psi  | 2000 psi                      |

## APPLICATION

**Surface Preparation:** Surfaces to be coated are best if clean and dry, free of grease, oil, dirt, and other contaminants. If product will be applied over smooth or previously coated surfaces, a test application should be performed to assure adhesion and compatibility. For specific alternate procedures for contaminated or coated surfaces, consult your Edison Coatings Representative. Detailing of cracks, joints, drains, perimeters and penetrations should be performed as stated in the **FLEXI-GARD 500** installation manual. Slabs on grade should always be pretested for moisture vapor drive in multiple locations prior to coating. Slabs exhibiting vapor emission rates in excess of 3 lbs./1000 sq.ft./24 hours shall be deemed unsuitable for coating unless remediated.

**Thinning & Mixing:** **FLEXI-GARD 500S** is supplied as a low viscosity, two-component, 100% solids coating. For most applications, no thinning is required. In some cases thinning may be economically advantageous, to increase product spread rate. In other cases, slight solvent addition may improve the "bite" on a hard existing coating or may improve penetration of slightly oily surfaces. Thinning should be limited to the minimum required, typically about 5-10% solvent addition should be sufficient. Use only compatible solvents, such as xylene or methyl ethyl ketone. **Caution: Solvents are hazardous materials and must be handled in accordance with the safety guidelines published by their manufacturers.**

Mix ratio is nominally 2:1 resin to hardener by volume. Measure and mix consistently. Product is also available in pre-measured units, eliminating the need for field-measuring of components. Mix thoroughly for at least two minutes, scraping the container bottom and sides to assure complete mixing. There is no induction or waiting time required after mixing before application.

The exothermic nature of epoxy setting reactions may cause rapid temperature rise when the mixture is left massed in a pail, resulting in high temperatures and loss of utility of the product. To maximize handling and working time, pour the mixture into shallow pans or dump and squeegee the mixture out onto the surface to be coated within a few minutes of mixing.

Apply by brush, roller, squeegee or plural component spray. Clean tools and equipment immediately after use with xylene. Do not subject to immersion for at least 5 days after application, or discoloration may result.

## SAFETY

**Read and observe the safety and handling guidelines as detailed in the Material Safety Data Sheets supplied with this product.** Avoid skin and eye contact. Epoxy resins are potential sensitizers, although Edison Coatings, Inc. avoids the use of the most highly sensitizing BGE and CGE diluents in this product. Hardener is a Corrosive Liquid. Avoid skin and eye contact. Remove from skin immediately, in case of contact. Remove contaminated shoes and clothing immediately.

**FOR COMMERCIAL & INDUSTRIAL USE ONLY.**

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