

I.142 – Systems Overview – Industrial Coatings, Floor Protection & Mortars

Revised: 3/16/2023 Version: 1.2

Below is an overview of Elite Crete Systems industrial coatings and flooring protection using epoxy/urethane/polyaspartic resins. Descriptions for use and typical areas of application are:

Standard “Neat” Epoxy Coatings:

HERMETIC™ Neat Epoxy Flooring: This type of epoxy finish is generally classified as a high gloss, ultra-smooth, thin to medium film build and typically used for dry traffic areas where light to moderate wear and abrasion is anticipated. This finish is also applied to walls with a roller for chemical and sanitary protection. Available in clear or many standard pigmented colors with custom colors available upon request.

Flooring areas that typically use this type of finish are: hospitals, offices, warehouses, garage floors, wood working and other industrial shop areas where no wet areas are anticipated. For slight damp areas an intentional “orange peel” texture can be applied to increase slip resistance as well as visually break the wet, high gloss appearance.

Non-Slip Broadcast Systems:

HERMETIC™ Color Quartz, Flake or Stout: For Industrial flooring applications where increased abrasion resistance and/or non-slip floors are required this type of coating is a medium to high build silica sand or colored silica quartz or vinyl flake broadcast coating with various options for protective topcoats. The finish appearance is that of a textured but cleanable surface. Surface profiles can range from light to heavy non-slip textures depending upon the shape and size of silica sand, colored silica quartz or vinyl flake selected to match the surrounding environment.

Flooring areas that require this type of non-slip broadcast finish include but are not limited to: automotive dealership service areas, heavy manufacturing areas, loading docks, veterinarians, marine environments, fire stations, parking garages, food service or food manufacturing areas and other flooring areas with heavy traffic in wet, greasy or oily environments.

Self Leveling & Trowel Applied Mortar Systems:

HERMETIC™ Paramount & Paramount HD: Epoxy and other polymer mortar flooring systems are typically selected for the following applications: For floors with weak, damaged, spalled or surface deteriorated concrete, it is much more cost effective and faster to repair and return to service with a trowel applied mortar. Holes, spalls deteriorated areas can be repairs with a smooth level finish typically in just one or two steps. Other applications requiring a trowel applied mortar include: Thermal shock attack, heavy duty abrasion resistance and machine grouting. Epoxy and polymer mortar flooring is generally selected only for indoor applications where the ambient temperature is fairly stable. The exception is for grouting equipment and machinery support. Call for guidelines.

Elite Crete Systems trowel applied mortars come in a variety of colors and mix designs to meet the requirements of the project specified by the architect or engineer.

Specialty Coatings:

As with any industrial coatings product line, we manufacture many required specialty coatings to provide high performance chemical protection, industrial grade durability and even aesthetic decorative finishes where required. Some of these products include: urethane coatings for increased chemical and abrasion resistance, waterborne epoxy systems, flake broadcast finishes, fast set epoxy formulations where time is critical, vapor barrier coatings to overcome outgassing, UV resistant coatings, flexible epoxy systems for parking decks & wood substrates and increasingly popular polyaspartic coatings.

For additional information or to view photos of these applications, visit us online at www.elitecrete.com.