

SkyGard[™] Aviation Hangar Floor Systems

Chemical-, Skydrol[®]-, UV- and Heavy-Traffic-
Resistant Resinous Flooring Systems





Performance that keeps *aviation moving*

SkyGard™ high-performance
flooring designed for the
demanding world of aviation.

Why Neogard?

Because aviation
doesn't just require
durability. It requires
*performance under
everything.*

Key features

- **Resistant** to fuels, oils, and harsh chemicals
- Built to **perform under** constant heavy traffic
- UV-stable for long-term **durability**
- Seamless surface for **safer, easier** maintenance
- **Customizable** finishes for functional zoning
- Solutions available for light-, medium-, and heavy-duty environments

**Discover the right
system for your hangar**

SkyGard™ System Overview



SkyGard™ aviation flooring systems are engineered to **deliver long-term performance** in the most demanding aviation environments.

Designed specifically for aviation environments, SkyGard systems provide superior durability for:

Aviation Hangars | Maintenance Repair and Overhaul (MRO) Facilities | Aircraft Manufacturing | Military Aviation Facilities | Commercial & Fixed-Base Operator (FBO) Hangars.

Key Benefits

Durability & Performance

- Built to handle **aircraft loads, heavy equipment, and constant traffic**
- Resists **chemical exposure** including aviation fluids, Skydrol®, oils, and maintenance chemicals
- UV-stable formulas maintain **long-term color and finish quality**
- Available in **light-, medium-, heavy-duty, and MRO systems** to match operational demands

Clean, Seamless Finish

- Creates a **smooth, seamless surface** that reduces joints, cracks, and dirt buildup
- Delivers a **clean, professional appearance** for modern hangar environments
- Resinous system improves **cleanability and stain resistance**

Enhanced Visibility & Efficiency

- **Light-reflective finishes** increase brightness across the hangar
- Helps distribute light more evenly, supporting **improved working conditions**
- Can **reduce lighting demand** and improve energy efficiency

Flexible System Design

- Supports **custom aviation color schemes and finishes**
- Enables **branding, safety striping, zoning, and wayfinding**
- Suitable for **commercial, military, and private aviation facilities**
- Designed for **performance + aesthetic flexibility in aviation environments**
- Multiple system builds allow customization based on **use, traffic level, and budget**



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SkyGard™ System Classifications

Light-Duty

SkyGard™ Light Duty systems **provide a cost-effective, seamless flooring solution** for aviation environments with **lighter operational demands**. Ideal for private and low-traffic hangars, this system enhances appearance while delivering reliable protection against typical aviation exposures.

Typical Performance Characteristics

- Chemical resistant
- UV-stable finish system
- Easy maintenance
- Seamless flooring surface

Performance Advantages

Durable Protection

- Resistant to common aviation fluids, oils, and chemicals
- Seamless system minimizes cracking and wear points

UV-Stable Finish

- Maintains color and gloss in sunlit hangar environments
- Ideal for hangars with open-door exposure

Low Maintenance

- Easy-to-clean surface reduces upkeep effort
- Resists staining and surface contamination

Recommended Applications

- Small aircraft hangars
- Existing hangar floor restoration
- Light maintenance operations
- Private aviation facilities

Medium Duty

SkyGard™ Medium Duty systems **provide enhanced durability and chemical resistance for commercial aviation environments** where performance and appearance must work together.

Typical Performance Characteristics

- Increased abrasion resistance
- Enhanced impact resistance
- Skydrol® resistance
- UV-resistant finish system

Performance Advantages

Enhanced Durability

- Improved resistance to abrasion, impact, and rolling loads
- Handles frequent aircraft movement and service equipment

Chemical & Skydrol® Resistance

- Protects against aggressive aviation fluids
- Reduces risk of substrate damage

UV-Resistant System

- Designed for consistent appearance in variable lighting conditions

Operational Efficiency

- Seamless surface supports faster cleaning and turnaround

Recommended Applications

- Commercial hangars
- FBO facilities
- Medium aircraft maintenance areas
- Military support hangars



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SkyGard™ System Classifications

Heavy Duty

SkyGard™ Heavy Duty systems are **designed for maximum strength and durability**, supporting continuous operations, large aircraft loads, and demanding aviation environments.

Typical Performance Characteristics

- High-compressive strength
- Heavy rolling load resistance
- Superior chemical resistance
- Extended lifecycle durability

Performance Advantages

High-Load Capacity

- Engineered to withstand heavy aircraft wheel loads
- Resistant to forklifts, tugs, and maintenance equipment

Superior Mechanical Strength

- High-compressive and impact-resistance
- Minimizes surface degradation under constant use

Advanced Chemical-Resistance

- Protects against fuels, oils, hydraulic fluids, and cleaners

Long-Term Durability

- Extended lifecycle reduces repair and replacement frequency

Recommended Applications

- Large aircraft hangars
- Airline maintenance facilities
- Heavy maintenance operations
- Aircraft manufacturing facilities
- Military aviation maintenance

Maximum Chemical-Resistance

SkyGard™ MRO systems represent the **highest level of performance**, engineered **specifically for environments where chemical exposure**, Skydrol®, and operational intensity are extreme.

Typical Performance Characteristics

- Maximum chemical-resistance
- Superior Skydrol-Resistance
- High-performance UV-stability
- Extreme durability under aircraft loads

Performance Advantages

Maximum Chemical-Resistance

- Designed to withstand prolonged exposure to aggressive chemicals
- Protects concrete from corrosion and degradation

Superior Skydrol-Resistance

- Proven performance in high-exposure areas
- Maintains integrity where standard systems fail

Extreme Durability

- Engineered for the most demanding aviation operations
- Resists heavy loads, impacts, and continuous use

UV-Stability Under Harsh Conditions

- Maintains color and performance in mixed indoor/outdoor exposure

Recommended Applications

- Maintenance Repair Overhaul facilities
- Aircraft engine manufacturing
- Heavy industrial aviation environments
- Parts manufacturing operations



Architects and Specifiers

SkyGard™ systems are **designed to help architects, engineers, consultants, and facility owners** achieve long-term protection and performance in demanding aviation environments.

Guide Specifications & Details

- CSI-formatted guide specifications
- CAD details
- Standard and product-specific system details
- System selection assistance

Quality Control & Application

- Licensed applicator network
- Pre-installation conferences supported
- Job-site technical support available
- Installation per manufacturer's written instructions
- Regional technical representatives
- Field technical assistance
- Application training programs

Performance Testing & Data

- VOC-compliance documentation
- LEED support information
- Product data sheets
- Installation manuals
- Maintenance recommendations
- Warranty documentation

Specifier Support

From Design Through Construction

- Specification assistance and review
- Value-engineering support without performance compromise

SkyGard™ Aviation System Selection Matrix

Selecting the right flooring system is critical to **ensuring long-term performance, durability, and protection in aviation environments**. The SkyGard™ Aviation System Selection Matrix **provides a simplified guide** to help match system capabilities with specific facility types, operational demands, and exposure conditions.

Facility Type	SkyGard™ Light Duty	SkyGard™ Medium Duty	SkyGard™ Heavy Duty	SkyGard™ MRO
Private Aviation	X			
Commercial Hangars		X	X	
FBO Facilities	X	X		
Military Hangars		X	X	X
Aircraft Manufacturing			X	X
Airline Maintenance			X	X
MRO Facilities				X
Air Cargo Facilities		X	X	

Not sure which system is right for your project?

SkyGard™ systems can be customized to meet specific performance requirements, environmental conditions, and project goals. **Contact our technical team for personalized system recommendations and specification support.**

Technical & Specification Support:

 www.neogard.com

Find the architectural specification and design consultant in your area.

Talk with our specialists





Neogard, A part of Hempel, manufactures high-performance coatings specified and used for structures across the globe for over 60 years. Neogard's coating systems protect the building envelope through vehicular and pedestrian traffic coatings, protective roof coatings, seamless flooring and elastomeric wall coatings. You can find Neogard coatings in Major Stadiums and Arenas, Office Buildings, Universities, Hospitals, Hotels and Casinos, Airports and Hangers, Government Facilities, Manufacturing Plants and more.

About Hempel

As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the protective, marine, decorative, container and yacht industries. Hempel factories, R&D centers and stock points are established in every region. Across the globe, Hempel's coatings protect surfaces, structures and equipment. They extend asset lifetimes, reduce maintenance costs and make homes and workplaces safer and more colorful. Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.

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