



**Specification: Vikote 9086/9080**  
**Floor Coatings**  
**Vinyl Chip Broadcast System**

Part 1: General

1.01 System Description

- A. Coating system for concrete floors
- B. Roller applied basecoat, vinyl chip broadcast, and 2 clear performance coats.
- C. This system shall be applied to properly prepared substrate in strict accordance with manufacturer's guidelines.

1.02 Submittals

- A. MSDS
  - 1. Current copies of manufacturer's MSDS must be on site and available at all times.
- B. Product Data Sheets
  - 1. Current version of manufacturer's product data sheet corresponding to all products used, including chemical resistance, physical properties, substrate preparation, and all application instructions.
- C. Samples & Color Charts
  - 1. Current version of manufacturer's color chart and sample of proposed system may be submitted as an example of finished system.
- D. Warranty
  - 1. Manufacturers Warranty
  - 2. Installer's Warranty
- E. Installer Quality Assurance: Submit list of minimum of 3 completed similar projects including:
  - 1. Project name and location.
  - 2. Name of Owner
  - 3. Name of General Contractor
  - 4. Name of Architect
  - 5. Name of Coating Manufacturer
  - 6. Square footage of coating installed
  - 7. Completion date
- F. Materials specified are manufactured by Vikon Coatings, Topsfield, MA. (888)817-3344
- G. No equivalent material of other manufacturers available.



### 1.03 Quality control

#### A. Qualifications

1. Applicator shall have a minimum of 2 years experience in preparation and application of polyurea coatings to concrete substrates and be a certified installer of Vikon Coatings.

#### B. Pre-Bid Conference

1. Installers, Architect, and Manufacturer's representative may conduct a conference to review all aspects of installation if necessary.

#### C. Packaging and Shipping

1. All products are to be delivered to the job site in original manufacturer's packaging with labels identifying:
  - a. Product name
  - b. Manufacturer name
  - c. Manufacture date
  - d. Color
  - e. Lot number

#### D. Storage

1. Product is to be stored away from direct sunlight and any potential ignition hazards.
2. Product should remain sealed until application.

### 1.04 Site Conditions

#### A. Environmental Conditions

1. Vikon Coatings can be applied in temperature range of -30F to 150F
2. Optimal relative humidity is 65%
3. Ventilate with fans or venting systems if necessary.
4. Installation should be done under actual lighting conditions.
5. Properly dispose of waste according to applicable regulations.

#### B. Safety Requirements

1. Installers should be familiar with all technical information and MSDS sheets.
2. Installers shall wear appropriate protective clothing.
3. Only certified installers shall be in the work area.

## Part 2: Products

### 2.01 Clear Performance Coats and Pigmented Coatings

- A. Manufacturer: Vikon Coatings, 462 Boston Street, Topsfield, MA 01983 (888) 817-3344 [www.vikoncoatings.com](http://www.vikoncoatings.com)
- B. Vikon Vikote 100% solids, zero solvent, zero VOC coatings are both industrial and decorative in nature. A 1:1 mix ratio of this 2 part polyurea is for interior and exterior use. Vikon coatings have superior resistance to abrasion, chemicals, water, industrial cleaners and UV rays. In addition,



Vikon coatings have advanced adhesion properties, extended elongation qualities and are eco-friendly with zero solvents and no odor. Vikon coatings are not just VOC compliant, they are VOC free.

2.02 Properties

A. Vikon Coatings have the following finished system properties:

1.

Color	Available in all Standard Colors	
Mix Ratio (by Volume)	1 part Hardener to 1 Part Resin	
Viscosity at 70° F	600-900 cps	
Pot Life at 70° F	10-15 minutes	
Cure Time, Touch Dry at 70° F	4 -6 hours, Full Cure 24 hours	
Cured Film Thickness	20 mils at 80 Sq.Ft./Gallon Spread Rate	
Toxicity	Non-Toxic, 100% Solids, Zero VOC's, Zero Solvents	
Physical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	55
Tensile Strength	ASTM C-307	1550 psi
Tensile Elongation	ASTM D-638	150%
Bond Strength to Concrete	ASTM D-4541	400 psi substrate fails
Impact Resistance	MIL D-+3134	Pass
Water Absorption	ASTM D-570	0.0008%
Heat Resistance Limitation		160° F
Coefficient of Friction	ASTM D-2047	0.8
Orange Peel		0.7
Smooth		

\*Insert Chemical resistance chart here\*



## Part 3: Installation

### 3.01 Site Inspection

Inspection of project site to be performed by certified Vikon installation foreman with specific attention paid to condition of substrate, environmental conditions including relative humidity and moisture content of the floor, as well as surrounding facility areas.

### 3.02 Preparation

#### A. Protection of surrounding environment

1. All areas not being coated should be taped off and tented to protect surfaces.
2. Any over spray or excess coating should be cleaned immediately due to the short cure time of the product.

#### B. Patching, Crack Filling, Expansion Joints

1. All patching shall be done with Vikon polyurea products. Spalls shall be repaired with Vikon Patch & Go, cracks with Vikon crack filler, and expansion joints shall be filled with Vikon SLR2 polyurea caulking.

#### C. Concrete Surface Preparation

1. Once the concrete surface is determined to be structurally sound, floor will be cleaned and emulsified to remove any surface contaminants. Floor is the ground to the optimal 30 grit profile utilizing diamond grinders with shrouds, and hepa vacuums.
2. All surfaces should be clear of any previous coatings or coverings unless a successful adhesion test is performed over a sound coating or a VCT or quarry tile floor.
3. Vikon Coatings can be formulated to withstand extreme hydrostatic pressure. Most coatings or floor coverings do not recommend installation if hydrostatic pressure exceed 3 pounds per 1,000 square feet (3 lb/1,000 ft<sup>2</sup>) over a 24 hour period as measured by the calcium chloride test method, ASTM F1869. Vikon Coatings have successfully withstood in excess of 12 pounds per 1,000 square feet over a 24 hour period. Contact the manufacture for more details.
4. Optimal relative humidity in the air is 65% and relative humidity of the slab is not recommended to exceed 80%

### 3.03 Application

#### A. General

1. The Vikon coating system shall be installed as follows:
  - a. Surface shall be cleaned, patched, and ground to a 30 grit profile.
  - b. Vikon 9086 advanced adhesion base coat shall be applied. Vikon W-3 primer may be substituted if a longer cure time window is possible.
  - c. Vinyl chip broadcast is installed
  - d. 2 coats Vikon 9080 performance coat are applied



#### B. Concrete Surface Preparation

1. Concrete must be free of all contaminants such as dust, dirt, debris, grease, or any other substances that would affect adhesion. Floor shall be dry and all cracks or spalls patched and abraded to the level of the rest of the floor.

#### C. Product Mixing

1. Products shall be mixed in strict adherence to the manufacturer's directions.
2. Vikon Coatings shall be mixed evenly and slowly stirred to avoid introducing any moisture or air bubbles to product. Never shake product. Mix with clean stirrer and clean mixing bucket to avoid shortening of pot life.

#### D. Product Application

1. Basecoat. Pour mixed product onto substrate and roll using 3/8 nap 18" wide. Cut in around walls and/or equipment using 3" brush. Product shall be rolled to a thickness of 7-10 mils. Recoat after approximately 90 minutes.
2. Vinyl Chip Broadcast. Install vinyl chips into base coat while product is still wet. Broadcast with hopper gun or hand "chicken feed" method. Allow product to cure for approximately 90 minutes and scrape, sweep, and vacuum any excess vinyl chips.
3. Final clear performance coat. Apply 2 clear topcoats of Vikon 9080 using 3/8" roller to achieve approximate top coat of 7-10 mils. Allow 2 hours before walking on coating and 24 hours for full cure.

#### 3.04 Cleaning

1. Allow all excess catalyzed material to cure and dispose of properly. Catalyzed material is an inert substance and can be disposed of as common household trash.
2. Clean up over spray or roll according to manufacturers recommendations.