

# COATING & MARKING PRODUCTS

FOR

**TIRE** and  
**RUBBER**



## MANUFACTURING

**APV**<sup>®</sup>  
ENGINEERED COATINGS



## **“ Any color so long as it is black Henry Ford**

In 1912, Ford Motor Company approached Akron Varnish Works for a solution to the bottle neck in their Model-T assembly process- the paint took too long to dry. We supplied Ford with an ultra fast drying enamel called Black Japan, which allowed them to dramatically increase production speed. After our success, we expanded our offerings to bicycle and automotive manufacturers and prospered through The Great Depression.



# **A focused partner in advanced coating, chemical & manufacturing solutions...**

APV offers a complete line of coating and marking products engineered specifically for tire and rubber manufacturers. All products boast outstanding performance properties and have been utilized by leading tire producers world-wide.

As compliance experts, APV offers low VOC, VOC-free, HAPS-free, and water-based formulations to meet REACH, EPA, and other environmental standards.

Our R&D team will custom-formulate products to meet unique applications and performance criteria.

Our Engineering Team designs and installs custom and retrofitted equipment for production lines to improve efficiencies and streamline the application process.

**1. STRIPING INKS**

**2. MARKING INKS**

**3. INSPECTION MARKERS**

**4. INDUSTRIAL CRAYONS**

**5. LUBRICANT COATINGS**

**6. CEMENTS**

**7. TIRE PAINTS**

**8. DECALS & GRAPHICS**

# STRIPING INKS



## Water-based Striping Inks

### Product Code: TB, TC, TD Series

This is a water-based line of inks used for coding and identification. TB and TC Inks are used on external rubber surfaces. Typical applications include: uncured treads, tubes, and hoses. These striping inks are available in both high viscosity (TB and TD-series) and low viscosity (TC-series) chemistries to accommodate multiple application processes. TB and TD Inks are gravity fed through a Beugler Wheel System® and can be ordered in 8 oz. bead marker bottles, quarts, and gallon containers. TC Inks are applied with a pressurized syringe or capillary tube and packaged in gallon containers or five gallon pails.

### Colors:

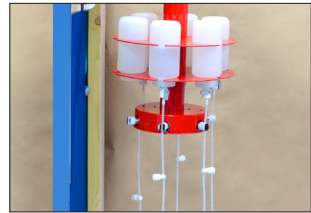
TB-1267 White  
TB-2326 Red  
TB-2666 Pink  
TB-2712 Brown  
TB-3570 Orange  
TB-4222 Yellow  
TB-5141 Green  
TB-6353 Blue  
TB-7220 Lavender

TC-1538 White  
TC-2517 Red  
TC-2524 Pink  
TC-2528 Brown  
TC-3512 Orange  
TC-4537 Yellow  
TC-5546 Green  
TC-6530 Blue  
TC-7529 Lavender

**NEW!** Now in  
brighter colors!

TD-1540 White  
TD-2575 Pink  
TD-2634 Red  
TD-2636 Brown  
TD-3492 Orange  
TD-4315 Yellow  
TD-5578 Green  
TD-6555 Blue  
TD-7635 Lavender

*Capillary gravity feed system*



*Beugler wheel system for DH, DMH, TH, and TB inks*

## FEATURES

Excellent Adhesion to Rubber  
No Mold Fouling  
Water-based  
Wide Range of Colors Available  
Does Not Foul Molds  
Easy to Use and Implement

High Solid Content  
Non-Flammable  
HAPS Free  
Limited Odor  
Contains No VOCs/COVs  
Custom Colors Available

**Wide Range of Colors Available**  
**Excellent Adhesion to Rubber**  
**Co-Curable**  
**Does Not Foul Molds**

**HAPS Free**  
**Easy to Use and Implement**  
**Vibrant and Bright Stripes**  
**Custom Colors Available**

## FEATURES

### Solvent-based Striping Inks

#### Product Code: DH, DL, DM, and DMH Series

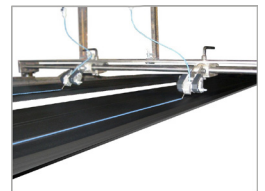
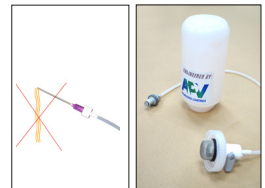
This is a solvent-based line of inks used for coding and identification. DH and DL Inks are co-curable and used on external rubber surfaces. Typical applications include: uncured treads, tubes, and hoses. These striping inks available in both high viscosity (DH, DM and DMH-series) and low viscosity (DL-series) chemistries to accommodate multiple application processes. Like the TH series, DH and DMH Inks are gravity fed through a Beugler Wheel System® and DM Inks are pressure fed through a Beugler Wheel System®. These products can be ordered in 8 oz. bead marker bottles, quarts, and gallon containers. DL Inks are applied with a pressurized syringe or capillary tube and packaged in gallon containers or five gallon pails.

#### Colors:

DH-1611 White	DL-1858 White
DH-2330 New Red	DL-2925 Red
DH-2570 Red	DL-2832 Pink
DH-2944 Pink	DL-2952 Brown
DH-2834 Brown	DL-3948 Orange
DH-3676 Orange	DL-4952 Yellow
DH-4313 New Yellow	DL-5924 Green
DH-4912 Yellow	DL-6009 Blue
DH-5675 Green	DL-7897 Lavender
DH-6677 Blue	DL-8075 Gray
DH-6688 Light Blue	
DH-7678 Lavender	
DH-8016 Gray	

---

DMH-1603 White	DM-2640 Pink
DMH-2173 Red	DM-3641 Orange
DMH-2758 Pink	DM-4550 Yellow
DMH-3642 Orange	DM-5642 Green
DMH-4551 Yellow	DM-6639 Blue
DMH-5643 Green	
DMH-6641 Blue	



*Pressurized capillary system application for DL and TC inks*

# MARKING INKS

## Water-based Defect Marking Ink



### Product Code: DH-Series, TA-Series

Defect Marking Ink is used on internal or external rubber surfaces of tire components where a defect requires attention, as well as for harmonic and conicity markings during uniformity testing. The product is applied by conventional spray or with an 8 oz plastic bottle with an applicator nozzle for an easy and controlled application.

## Water-based Bead Marking Ink

### Product Code: TA Series

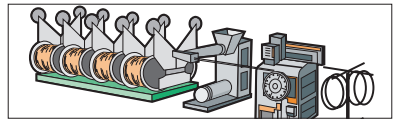
This is a water-based line of inks used to code and identify uncured bead rings during the bead assembling process. Bead Marking Inks are co-curable and have excellent adhesion to internal surfaces. Manufacturers can also use this product to mark plies or other green rubber components. Bead Marking Inks are packaged in 8 oz. bottles with an applicator nozzle for an easy and controlled application.

### Colors:

- TA-1120 White
- TA-2120 Red
- TA-3120 Orange
- TA-4120 Yellow
- TA-5120 Green
- TA-6104 Blue



*Manually applied with marking plastic bottles and nozzles.*



*Bead Assembling*

## FEATURES

**Excellent Adhesion**  
**Fast Drying on Hot Surfaces**  
**For Internal Use**  
**Easy Application**  
**Non-Hazardous**

**Industry Proven**  
**Non-Flammable**  
**Wide Range of Colors Available**  
**Contains No VOCs**

**Water-removable**  
**Variety of colors**

**Easy to Apply**  
**For External Use**

## FEATURES

### Solvent-based Stamping Ink

**Product Code: D-1091**

Stamping Ink is a white ink used on external surfaces, such as sidewalls, for inventory recording purposes. The product is applied by a rubber stamper and can be easily removed with a damp cloth.



**Colors:**

- D-1091 Bright White
- D-4193 Yellow
- D-6809 Blue

### Jet Printing Ink



**Product Code:**

These inks are use for alpha-numeric identification and inventory labeling on internal or external rubber components. Jet Printing Inks are available in water or solvent-based chemistries and applied via DOD (drop on demand) printers. This product was engineered specifically for the [REA JET® Large Character Ink Jet Printer System](#). Jet Printing Inks can be applied during various steps of the tire production process, including: compound mixing, calendaring, tread extrusion, and final finish.

## FEATURES

**Excellent Adhesion**  
**Does Not Foul Molds**  
**Produces Clean, Crisp Dots**  
**High Hiding**

**Easy to Implement**  
**Fast Drying**  
**HAPS-free**

# INSPECTION MARKERS

## Water-based Dot Markers



### Product Code: T Series

This is a water-based marking tool used to denote high point, conicity, and pass/fail marks during the tire uniformity inspection stage in tire production. Dot Markers contain water-removable inks and are packaged in marker containers for an easy and controlled application. This product is offered in three sizes for varying diameter dots. Dot Markers can be applied by hand or installed in a balancing or uniformity machine. The typical number of dots produced from a standard size marker (10-13mm.) is approximately 5,000  $\pm$  10%.

### Colors:

- T-1608 White (standard/ small)
- T-2587 Red (standard/ small/ XL)
- T-2734 Pink (standard/ small)
- T-3594 Orange (standard/ small)
- T-4595 Yellow (standard/ small)
- T-5736 Light Green (standard/ small)
- T-5596 Green (standard/ small)
- T-5865 Green (standard/ XL)
- T-6612 Blue (standard/ small/ XL)
- T-7732 Lavender (standard/ small)

### Sizes:

- Small Size= 5-8 mm.
- Standard Size= 10-13mm.
- Extra Large Size= 18-23mm.



## FEATURES

- Pocket-Sized**
- Easy to Use**
- Aids with Synchronization**
- Aids with Process Verification**

- Removable with Water**
- HAPS-free**
- Contains No VOCs**



**Wide Range of Colors Available**  
**Pocket-Sized**  
**Easy to Use**

**Aids with Synchronization**  
**Aids with Process Verification**  
**Removable with Water**

## FEATURES

### Solvent-based Dot Markers

#### Product Code: D Series

This is a solvent-based marking tool used to denote high point, conicity, and pass/fail marks during the tire uniformity inspection stage in tire production. Dot Markers contain water-removable inks and are packaged in marker containers for an easy and controlled application. This product is offered in three sizes for varying diameter dots. Dot Markers can be applied by hand or installed in a balancing/uniformity machine. The typical number of dots produced from a standard size marker (10-13mm.) is approximately  $5,000 \pm 10\%$ .

#### Colors:

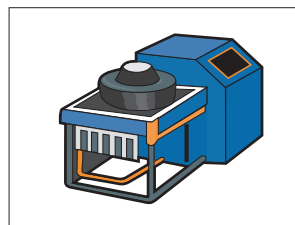
- D-1009 White – small, standard
- D-2522 Pink – small, standard, XL
- D-2596 Red – small, standard
- D-2861 Ford® Red – standard, XL
- D-3564 Orange – small, standard, XL
- D-4196 Yellow – XL
- D-4744 Yellow – small, standard, XL
- D-4811 Heavy Yellow – standard, XL
- D-5865 Ford Green – small, standard, XL
- D-6031 Light Blue – small, standard
- D-6699 Blue – standard, XL
- D-8505 Gray – standard
- D-9195 Black – standard

#### Sizes:

- Small Size= 5-8 mm.
- Standard Size= 10-13mm.
- Extra Large Size= 18-23mm.



*Balance Inspection*



# INDUSTRIAL CRAYONS

## Ply Markers & Crayons

### Product Code: C Series

A widely used tool, these products have been incorporated into several stages of the tire making process including marking raw material bales, fabric cord calendaring, tread and sidewall extrusion, inner liner calendaring, tire building, and inspection.

Ply Marker Crayons, or fugitive crayons, are used to mark uncured (internal) rubber surfaces such as calendered material, plies, and bead rings. They can also be used to mark cured (external) rubber surfaces such as defect areas during visual inspection.

Ply Markers and Crayons are available in standard, jumbo, and triangular sizes and can be applied manually or by machine.

### Sizes:

Standard, Triangular, Jumbo

### Colors:

- C-0300 Disappearing
- C-0303 Ultraviolet Visible
- C-1120 White (standard)
- C-2055 Pink (standard)
- C-2185 New Red
- C-2190 Red (standard)
- C-2225 Very Red
- C-2328 Brown (standard)
- C-3150 Orange (standard)
- C-3165 New Orange
- C-4320 Yellow (standard)
- C-5284 Light Green
- C-5520 Green (standard)
- C-6155 Light Blue
- C-6420 Blue (standard)
- C-7491 Lavender (standard)
- C-8490 Gray (standard)



## FEATURES

**Wide Range of Colors Available**  
**Excellent Adhesion**  
**Safe for Internal or External Use**

**Does Not Cause Delamination**  
**Easy to Use**  
**Contains No VOCs**

# LUBRICANT COATINGS

## Whitslik™

### Product Code: Q Series

Lubricants and release agents are used to meet processing, application, and performance requirements in the curing and final finish stages of production. These products primarily function to help reduce scrap.



### Inside Tire Lubricant

Q-0960\* No mica content, Curable  
Q-2000 No mica content  
Q-0410 10% mica  
Q-8005 10% mica, Gray Tint

**Proven & Tested for Slip**  
**Excellent Air Bleed**  
**Extends Bladder Lifecycle**  
**Reduces Uniformity Issues**  
**Does Not Flake After Curing**

### Bladder Coating

Q-0035

**Conditions New Bladders**  
**Refreshes Bladders During Cure**  
**Air Dry**  
**Extends Bladder Lifecycle**

**Prevents Corrosion**  
**Prevents Rim Slip**  
**Low Odor**  
**Minimizes Uniformity Issues**

### Mounting Lubricant (Uniformity Inspection)

Q-0133 Silicone-Free  
Q-0658 Silicone-Free,  
Concentrate (*Dilute 4:1 deionized  
water*)

**Long-lasting**  
**Exceptional Anti-stick**  
**Improves Rubber Flow**  
**Keeps Vents Open**  
**Prevents Lights/Non-fills**

### Mold Release Agent

Q-0020\*  
Q-0080  
Q-0024 Mandrel Release  
Q-0043 Mandrel Release

\*Cannot ship outside of North America

# CEMENTS

## Water-based Undertread, Retread & Splice Cement

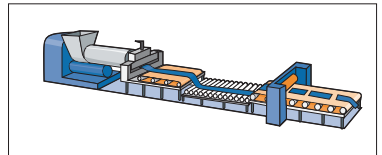
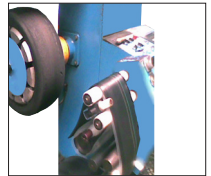


### Product Code: N-9935

This product can be utilized on two components of the tire, treads or splices. Manufacturers spray or gravure apply a thin film of the cement to the underside of extruded treads and again on the splice (or skive) areas. An ideal replacement to liberally-applied solvent-based cements, high adhesion performance is achieved with a minimal amount of this product. When coated, the cured tread will show above average adhesion to most compounds, while leaving no air spaces/voids.

Ideal for retread manufacturers, N-9935 has proven long-term success and cost saving advantages when adhering new tread compound to salvaged tire carcasses.

When spray applying this cement, APV recommends a finely atomized air/fluid spray gun for optimum coverage and film thickness.



*Tread and Sidewall Extruding*

## FEATURES

**Curable**  
**Will Not Re-Solvate in Cooling Bath**  
**No Health or Environmental Hazards**  
**Cleanup Without Solvents**  
**Will Not Stick to Tread Booking Trays**

**Not a Fire Hazard**  
**Economical/High Solids**  
**Low Odor**  
**Contains No VOCs**

Contains No VOCs  
No Health or Environmental Hazards  
Not a Fire Hazard  
Economical/High Solids  
Easy Clean Up

Curable  
Easy to apply  
Excellent Adhesion  
Low Odor

## FEATURES

# Water-based Bead Dip Cement

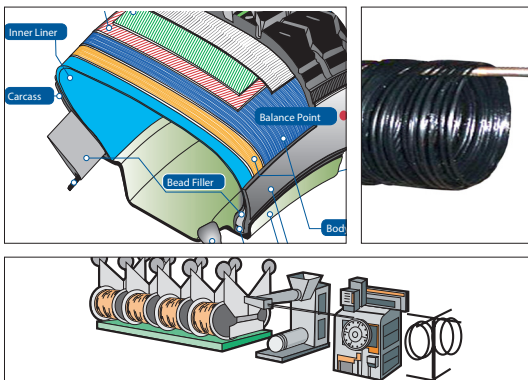


### Product Code: N-9994

This is a water-based cement applied onto uncured bead rings during the bead assembling process in tire production. Bead Dip Cement provides exceptional adhesion of the ring to the carcass and inner liner after curing.

Conventionally, the rings are dipped into a 'bath' of N-9994 for even coverage. The water-based and zero VOC content minimizes odor and emissions from the tank produced from solvent-based alternatives.

APV recommends a plastic or stainless steel tank (with stainless steel welds), slow agitation, and pH level inspections for optimum application. If necessary, our L-400 solution can be used to maintain proper pH balance.



*Bead Assembling*

# TIRE PAINTS

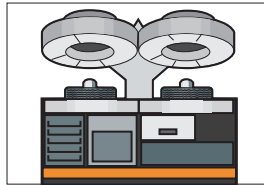
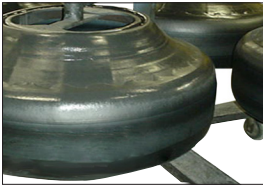
## Water-based, Pre-cure Outside Tire Paint



### Product Code: P-9990, P-9992, P-9346, P-9572

This line of Outside Tire Paint, also termed anti-blemish paint, is spray-applied to uncured or green rubber surfaces. In addition to improving aesthetics, Outside Tire Paint provides a clean release from the mold/curing press. These paints are also used to promote rubber flow and air release, which eliminates lights, cracks, non-fills and blisters.

- P-9990 Smooth, uniform sidewall finish, ideal for decals
- P-9992 Lower solids version of the P-9990
- P-9346 Higher adhesion version of P-9990
- P-9572 High solids and fast drying



*Tire Curing*

## FEATURES

- Curable
- Easy to Apply
- Fast Drying
- Eliminates Lights and Cracks
- Eliminates Non-Fills
- Improves Rubber Flow

- Industry Proven
- Creates a Uniform Surface
- Reduces Waste/Scrap
- Three Solids Levels Available
- Contains No VOCs

**Reduce Scrap**  
**Economical/Thin Film**  
**Improves Aesthetics**

**Emulates a Cured Finish**  
**Provides Excellent Hiding**  
**Durable Finish**

## FEATURES

### Water-based, Post-cure Repair Paint



**Product Code: P-9562, P-9217, P-9382, P-9383**

Repair Paints are used on cured rubber in the final finish and inspection stage in tire and retread production. Repair Paints cosmetically hide imperfections on a tire sidewall or tread surface, eliminating blemishes, scratches, chalk, crayon marks, etc. The product is spray-applied with an atomized spray gun for an even, smooth coverage.



### Water-based, Post-cure Sidewall Protective Paints



**Product Code: P-6922, P-6004**

Protective Paints are used in the final finish stage in production on cured white lettering and white sidewall panels to maintain aesthetics and protect against staining. This product has been proven to minimize staining caused by stacking tires during storage, shipping and handling.

## FEATURES

**Scuff Resistant**  
**Stain Resistant**  
**Excellent Appearance**

**Excellent Flexibility- will not flake**  
**Excellent Abrasion Resistance**  
**Water-Removable**

# GRAPHICS & DECALS

## Water-based Stencil Ink



### Product Code: T-1019

Stencil Ink is used to enhance race tire sidewalls, hoses, golf grips and other cured rubber product surfaces requiring a logo or brand name. Specifically formulated for cured rubber compounds, Stencil Ink can be easily applied with HVLP or conventional spray equipment.

## Decals

### Product Code: CUSTOM

These screen-printed decals are widely used in tire production. An alternative to spraying, the product is cast onto Mylar sheets and applied to cured rubber surfaces using a post-cure heat transfer method (time, temperature, and pressure). The result is a high resolution, long-lasting decal.

The Technical Sales Team works with manufacturers on the design, color, and location of the decal, as well as procurement of the application equipment. Originally engineered for race tires, decals can also be applied to lawn and garden equipment tires, ATVs, and golf cart tires.



## FEATURES

Easy to Apply  
Sharp and Crisp Letters/Images  
Abrasion and Scuff Resistant  
Color Retention

No Bleed-Through  
High Resolution  
High Hiding  
Adheres to Many Substrates





**Connect with us:**



**(800) 772.3452**



**sales@apvcoatings.com**



**www.apvcoatings.com**

