# SOLVENT BORNE & HIGH SOLID RESINS FOR ROAD MARKING PAINTS

VIACRYL®, SETAL®, ADDITOL®, RESAMIN®, EBECRYL®


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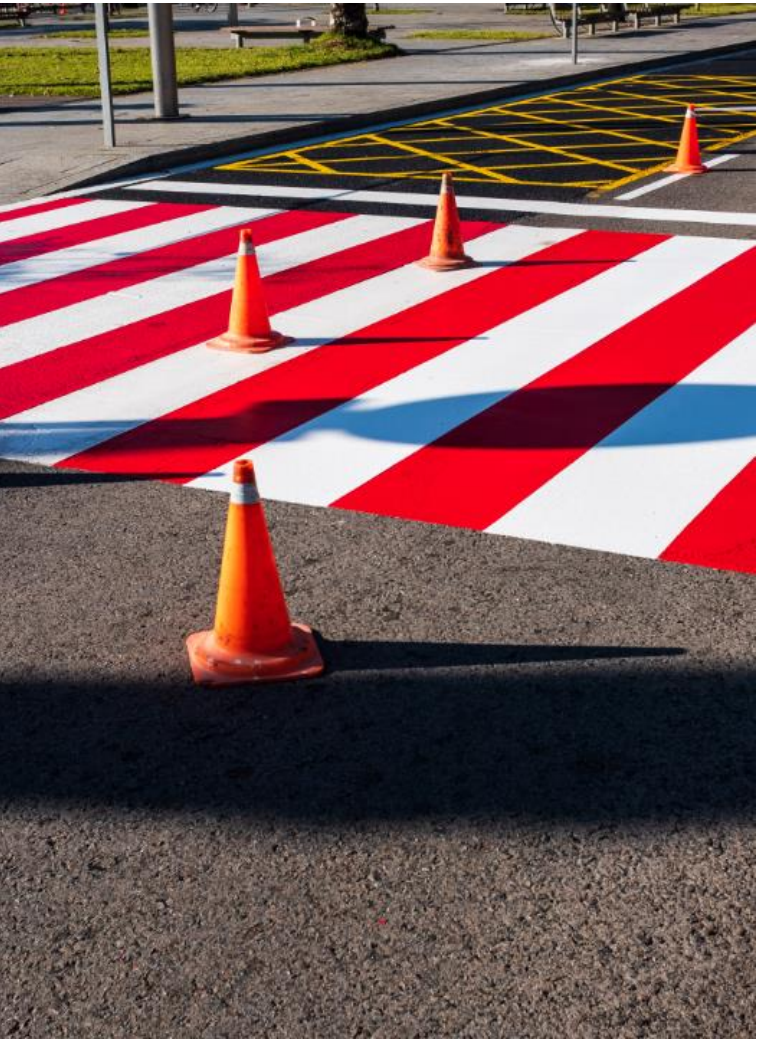
The Coating Resins Company

# IMPORTANT FEATURES



- Durability
- Daylight and night visibility
- Skid resistance
- Quick drying
- Chemical and abrasion resistance
- Glass beads adhesion

# SOLVENT BORNE RESINS FOR ROAD MARKING – 1K (THIN LAYERS)

## ACRYLIC COPOLYMERS MODIFIED WITH DRYING FATTY ACIDS

VIACRYL® VSC 5721 can be used as sole binder for road marking paints. The fatty acids confer this material very good adhesion to oily surfaces.

## STYRENE ACRYLIC COPOLYMERS

VIACRYL SC 121, VIACRYL SC 126 and VIACRYL SC 160 can be used as sole binder, usually without additional use of plasticising components and give elastic paints with good abrasion resistance.

## PHENOLIC MODIFIED ALKYDS

Provide fast drying economical formulations. Usually in combination with chlorinated rubber.

The various delivery forms are available in page 4 according to products.

Due to the higher acid value, extenders and fillers used in road marking paints should be selected carefully. One should especially take care to avoid humidity in order to ensure stable formulations.

# SOLVENT BORNE RESINS FOR ROAD MARKING – 1K (THIN LAYER) PRODUCT OVERVIEW

| Resin | Product Type | % NV | Viscosity (mPas) | Solvent | Characteristics |
|---|---|---|---|---|---|
| VIACRYL® SC 126/50LG | Thermoplastic Acrylic Resin | 50 | 360-930 | Solvent mixture | • Rapid solvent release<br>• Excellent flexibility and adhesion<br>• Excellent retention of white colour<br>• Can be used in combination with chlorinated rubber |
| VIACRYL SC 160/60T | Acrylic polymer, plasticized | 60 | 8000-15000 | Toluene | • Rapid possibility to drive over<br>• Very rapid solvent release<br>• Sole binder with good adhesion |
| VIACRYL SC 121/60X | Thermoplastic acrylic resin | 60 | 5000-9000 | Xylene | • TPA in xylene, when toluene is not accepted<br>• Excellent adhesion and abrasion resistance |
| VIACRYL SC 5721/65BAC<br>VIACRYL SC 5721/65T | Fatty acid modified acrylic copolymer | 65 | 300-600<br>200-500 | Butyl acetate<br>Toluene | • Very suitable for high solid formulations<br>• Very suitable for high temperature<br>• Very good adhesion to 'oily' surfaces |
| SETAL® 848 OX-60 | Phenolic modified SOA | 60 | 4000-6000 | o –Xylene | • Fast drying<br>• Can be used in combination with chlorinated rubber |

# SOLVENT BORNE RESINS FOR ROAD MARKING - 2K (COLD PLASTICS–THICK LAYERS)

VIACRYL® VSC 5745 and VIACRYL SC 5747 (non pre-catalysed) are reactive polyester resins dissolved in acrylic monomers,. They have been developed for Southern regions and optimised curing at higher temperatures.

VIACRYL VSC 2990 and VIACRYL SC 2991 (non pre-catalysed) are acrylic resins dissolved in acrylic monomers and therefore give a better initial whiteness when compared to previous binders. Materials are internally plasticized and very elastic. They can be formulated without the use of additional plasticizing components.

Non pre-catalysed resins are designed for machine applications.

# SOLVENT BORNE RESINS FOR ROAD MARKING – 2K (COLD PLASTICS-THICK LAYERS) PRODUCT OVERVIEW

| Resin | Product Type | % NV | Viscosity (mPas) | Characteristics |
|---|---|---|---|---|
| VIACRYL® VSC 5745 | Reactive polycondensate resin in 40% MMA/BA monomers | 100 | 60-115 | • Cured with benzoyl peroxide<br>• Good weather and abrasion resistance<br>• Balanced hardness and elasticity |
| VIACRYL SC 5747 | Reactive polycondensate resin in 40% MMA/BA monomers | 100 | 60-115 | • Same attributes as VIACRYL® VSC 5745<br>• Not pre-activated, to adjust reactivity/ drying profile |
| VIACRYL VSC 2990 | Reactive polycondensate resin in 40% MMA/BA monomers | 100 | 40-140 | • Cured with benzoyl peroxide<br>• Good weather and abrasion resistance<br>• Internally plasticized<br>• Very elastic (no need for plasticizer)<br>• Better initial whiteness |
| VIACRYL SC 2991 | Reactive polycondensate resin in 40% MMA/BA monomers | 100 | 40-140 | • Same attributes as VIACRYL® VSC 2990<br>• Not pre-activated, to adjust reactivity/ drying profile |
| EBECRYL® 230 | Urethane modified acrylic | 100 | n.a. | • Reactive diluent<br>• Improve flexibility (10-30 dosing) |

# ADDITIVES FOR WATER BORNE AND SOLVENT BORNE ROAD MARKING SYSTEMS PRODUCT OVERVIEW

| Additive | Technology | Characteristics |
|---|---|---|
| ADDITOL® XL 270 | SB & WB | • Dispersant & Rheology modifier<br>• Excellent pigment wetting for inorganic pigments & fillers<br>• Rheology modifier bringing strong anti settling properties |
| ADDITOL XL 6577 | SB | • Strong wetting agent for inorganic pigments & fillers<br>• Designed for both direct grinding and pigment pastes<br>• Cost efficient material |
| ADDITOL XW 6569 | WB | • Strong defoamer for WB systems<br>• 20% silicone emulsion boosted with silica particles |
| ADDITOL XW 6580 | SB & WB | • Leveling additive, strong substrate wetting agent for both WB & SB systems<br>• Modified trisiloxane, 100% active |
| RESAMIN® HF 480 | SB | • Plasticizer<br>• Urea carbamide resin |

# CONTACT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