

CLONMEL COMMUNITY INVOLVEMENT

Camida continues to support our local community in many ways.

At Christmas, Camida donated to two very worthy causes, as voted by Camida staff. Scoil Aonghusa is a special needs primary school catering for children with multiple difficulties. The money donated by Camida will go towards accommodation for their participants in the Special Olympics in June. The second donation went to Camphill Community in Carrick-on-Suir, a self-sufficient community for those with and without disabilities.



Camida sponsored the under 12's jerseys for Kilsheelan's relaunched children's soccer club, Slievenamon Celtic. The new name and colours were chosen from over 150 entries from local children with the final result displayed right. We're proud to announce that Kilsheelan have been crowned champions of the Tipperary school boys southern district league! Congratulations!



Camida were the main sponsor for Clonmel Triathlon Club's annual Duathlon in April. The event drew many participants and a large crowd of supporters.

Clonmel Rugby Club are focusing more on their underage section. Camida contributed to the funding of specific training equipment for them.



As we all know, a healthy body is a healthy mind! The social committee organised some classes at one of the local gyms, BC Fitness. A great work out was had by all!

TIPPERARY LADIES FOOTBALL

Camida's Sponsorship continues

Congratulations Tipperary Ladies Football, All Ireland Intermediate Ladies Football Champions 2017. They are now playing at senior level and Camida are proud to sponsor them. We wish them the best of luck in the future.



NEW JOINERS

Emma



I joined Camida in September 2017 as a member of the Sourcing team having completed a BSc (Hons) in Nutrition and Health Science at Cork Institute of Technology. My role involves working with the Sourcing team, on a daily basis and providing sales support.

I am looking forward to facing new challenges and gaining many skills here at Camida. Many thanks to everyone for such a warm welcome!

Carmen



I joined Camida in July 2017 as a Sourcing Specialist. My role in Camida includes handling chemical enquiries and offering support to the Sales Managers.

I am originally from Romania and recently finished a PhD in Chemistry as part of a cotutelle programme between two institutions, one in Spain and one in Italy. I hope all my experience and knowledge will make me an asset to the team and I am very excited to be part of such a successful and welcoming company.



ALLNEX EBECRYL® LED 03

For packaging coatings and inks

EBECRYL® LED 03 is a multi-functional amino acrylate that boosts surface curing without losing performance when cured with UV LED lamps. It is designed for use in packaging coatings and inks, more specifically flexo and inkjet printing inks and varnishes (OPV).

Value Proposition

- Faster production with complete surface cure
- Unrivalled performance
 - Enhanced reactivity guards against migration caused by incomplete UV LED curing
 - Superior adhesion and colour strength
 - Blocking resistance
- Ease of incorporation
 - Due to its low viscosity and chemical nature, it is easy to formulate with most acrylate oligomers and monomers.
- Compliant with the latest industry regulations
 - REACH status
 - TSCA status expected soon
 - Nestle/Swiss-compliant

EBECRYL® LED 03 Target applications

Inkjet printing inks



Flexo printing inks

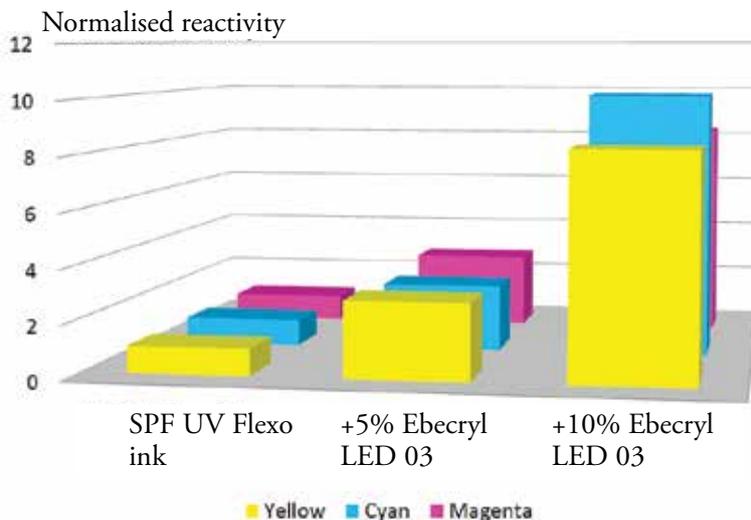


OPVs



EBECRYL® LED 03 ensures outstanding surface cure response compared to standard UV inkjet or flexo inks, a need that is not met by current chemistry. Thus, this product is a one-of-a-kind innovation in the market.

UV LED surface cure response in different UV Flexo inks



The impact on UV LED inkjet inks is even more dramatic, boosting the reactivity over 20x with 10% EBECRYL® LED 03.

For information on Ebecryl from Allnex, please contact Camida at +353 52 6125455 or info@camida.com



VAZO FREE RADICAL INITIATORS

Quick Product Review

Description

Vazo™ free radical initiators are substituted azo compounds that thermally decompose to generate free radicals and nitrogen gas. The rate of decomposition is first-order and unaffected by contaminants such as metal ions. Chemours offers four solvent-soluble grades: Vazo™ 52, 64, 67, and 88 and three water-soluble grades: Vazo™ 56WSP, 56WSW, and 68WSP.

The grade number is the Celsius temperature at which the half-life in solution is 10 hours. Vazo™ initiators are used in bulk, solution, suspension, and emulsion polymerisations. They can be used alone or in combination with other free radical initiators.

Commercial Uses

- Free radical polymerisations for resins and coatings
- Halogenations (chlorinated solvents and elastomers)
- Addition reactions (chlorine, hydrogen sulfide with olefins)
- Oxidations

Applications

Vazo™ free radical initiators are used to polymerise a variety of monomers. Some common acrylic and vinyl monomers are:

- vinyl chloride
- acrylonitrile
- acrylic acid
- acrylamide
- styrene
- ethylene
- vinyl acetate
- vinylidene chloride
- methyl methacrylate
- methyl acrylate
- unsaturated polyesters

Some of the end-use markets for Vazo™ initiators are:

- automotive coatings
- industrial and speciality coatings
- acrylic sheets and composites
- chemical intermediates
- super-absorbent polymers
- water treatment chemicals
- adhesives and sealants
- graphic arts
- personal care
- detergents
- textiles
- pulp and paper uses
- pharmaceuticals

Because Vazo™ Free Radical Initiators...	They...
are more stable than peroxides	can be stored economically under milder conditions and are not shock-sensitive.
decompose with first-order kinetics and are not sensitive to metals, acids, or bases	enable highly efficient and predictable reactions under a wider range of processing conditions.
produce less energetic radicals than peroxides	improve product quality and yield by producing less branching, cross-linking, and chain decomposition.
have varying thermal activity	can be used over a wide range of process temperatures.
are very weak oxidising agents	can be used to polymerise a wider range of monomers and do not affect pigments and dyes.
generate more viable free radicals per pound or kilogram than comparable peroxides and are not susceptible to radical-induced decomposition	are more cost-effective.

For information on Vazo Free Radical Initiators, please contact Camida at +353 52 6125455 or info@camida.com

Introduction

Dorf Ketal's Tyzor™ organic titanates and zirconates are versatile chemical tools that are widely used in the adhesives and sealants industry. This Technical Note describes some of the more important Tyzor™ applications in adhesives and sealants, and explains how they work and how they are used.

Tyzor™ Adhesive and Sealant Applications

- manufacturing catalysts for sealant / adhesive prepolymers
- adhesion promoters
- wetting agents
- dispersants
- surface protection
- water scavengers
- crosslinkers
- crosslinking catalysts
- thixotropic agents

Tyzor™ Products Commonly Used in Adhesives and Sealants

- Tyzor™ 9000
- Tyzor™ AA-65
- Tyzor™ AA-75
- Tyzor™ AA-105
- Tyzor™ BTP
- Tyzor™ NBZ
- Tyzor™ NPZ
- Tyzor™ OGT
- Tyzor™ PITA
- Tyzor™ TE
- Tyzor™ TnBT
- Tyzor™ TOT
- Tyzor™ TPT

Tyzor™ titanates and zirconates are effective in many other adhesive and sealant systems. A partial list follows:

Tyzor™ Products for Sealants and Adhesives

- | System | Tyzor™ Products |
|---------------------------------------|-----------------------|
| ● acrylic (<i>aqueous</i>) | ● TE |
| ● polyurethane (PUR) | ● AA-75, AA-105, TnBT |
| ● epoxy (EP) | ● AA-75, AA-105, TnBT |
| ● butyl rubber, isoprene, chloroprene | ● TnBT, NBZ, AA-75 |

Crosslinkers

Tyzor™ titanates and zirconates react with OH or COOH polymer groups to produce crosslinked polymers with higher molecular weights. Tyzor™ chelates make it relatively easy to control reactivity, preventing premature crosslinking and improving stability in storage.

Effects: Tyzor™ products are effective curatives and gelling agents, increase drying rates, and improve resistance to water, chemicals and heat.

Use: Tyzor™ products are typically applied as additives in silicones, acrylates, glues and similar formulations.

Acrylics

Tyzor™ titanates and zirconates are very effective crosslinkers for acrylics and other non-aqueous sealants and adhesives. They react with carboxylic groups and OH-groups in co-polymerised acrylic acid, and the alcohol stabiliser delays the crosslinking reaction. Crosslinking occurs spontaneously after the solvent evaporates. Tyzor® AA-75, AA-105, TNBT, BTP or TOT provide good stability and adhesion.

Application rates range from 0.3 to 1.5 percent based on the acrylic polymer.

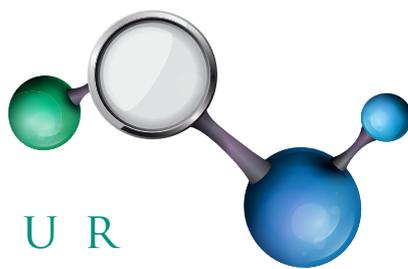
Adhesion Promoters

Highly reactive Tyzor™ titanates and zirconates dramatically improve sealant and adhesive adhesion on a wide range of surfaces, including reactive and unreactive inorganic materials and even organic polymers. Tyzor™ products can be used as additives at rates ranging from 0.5 to 3 percent or as primers in solutions with alcohols such as isopropanol at rates ranging from 0.5 to 5 percent. Synergistic effects can be achieved when used with organo-silanes.

Effects: Adhesion and moisture resistance are improved, along with resistance to chemicals and alkalis, and electrical properties also improve.

Use: Tyzor® products are often applied as primer solutions on inorganic substrates such as glass, mineral building material or metal, and can also be applied as polymer additives. They can be applied to plastics pretreated with corona, plasma or flame, and they can be used in combination with organofunctional silanes.

For information on Tyzor Organic Titanates from Dorf Ketal, please contact Camida at +353 52 6125455 or info@camida.com



YOUR
SEARCH
IS OVER

From Organic Intermediates to Biochemicals, from Performance Chemicals to Food Ingredients, Camida can source, manage and deliver your needs.

Whether your business is in pharmaceuticals, food, biotechnology or surface coatings, we meet the highest industry standards and conform to the most stringent international protocols.

Tap into our global network and over 25 years' experience in sourcing specialised chemicals.

We understand your needs, we provide solutions, above all, we exceed your expectations.

Visit www.camida.com, email us at info@camida.com or phone us at +353-52-6125455.

CAMIDA
SOURCE • SUPPLY • SOLUTION