



ECOLOR INK & GLUE
PATENTED TECHNOLOGY

ECO SOLVENT-BASED CERAMIC INKS AND GLUE

Ecolor Ink & glue are licensable technologies for the production of new, innovative eco-solvent-based inks that **significantly reduce harmful emissions** and odor while retaining the same performance as the best inks and glue currently available.



INNOVATIVE ECO SOLVENT-BASED CERAMIC INKS

- Odorless components: significant reduction in harmful emissions
 - 60% of FORMALDEHYDE
 - 50% of ALDEHYDE
 - 50% of VOCs (volatile organic compounds)
 - 20% of COT (total organic carbon)
- Environmentally friendly
- Same performance as traditional inks
- Overcomes the drawbacks of water-based inks
- Suitable for all tile production facilities; no need of further investment like post combustors

GLUE WITH AN EXCELLENT PRODUCTION STABILITY

- Extra-long drying time
 - Allows the application of grit even at a later stage
 - Guarantees successful application on a body with a high degree of absorption (monoporosa or new technologies)
- An extremely smooth texture on full field surface and low emission
- Digital glue, combined with special grits, allow different surfaces and effects, minimizing defects and surface porosity
- It contains a particular flux that optimizes the application of the grit, obtaining a perfect homogeneity and surface flatness



Ecolor inks are based on highly refined and selected solvent with high evaporation temperature that can burn with an almost complete combustion process. Ecolor inks guarantee high quality printing performances.

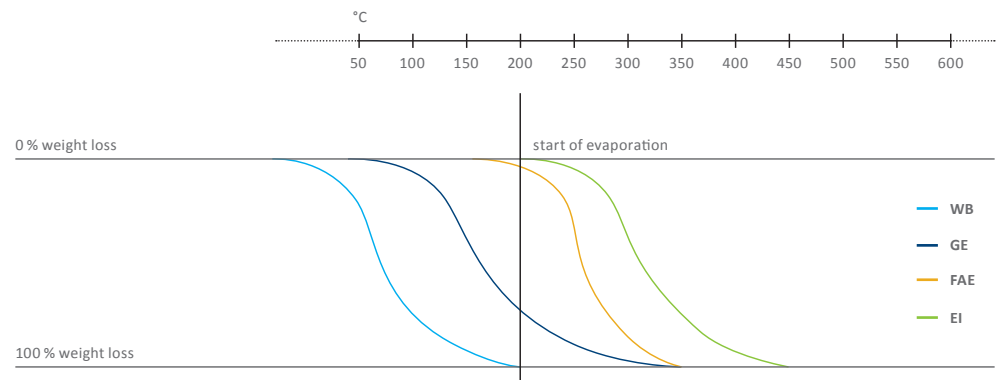
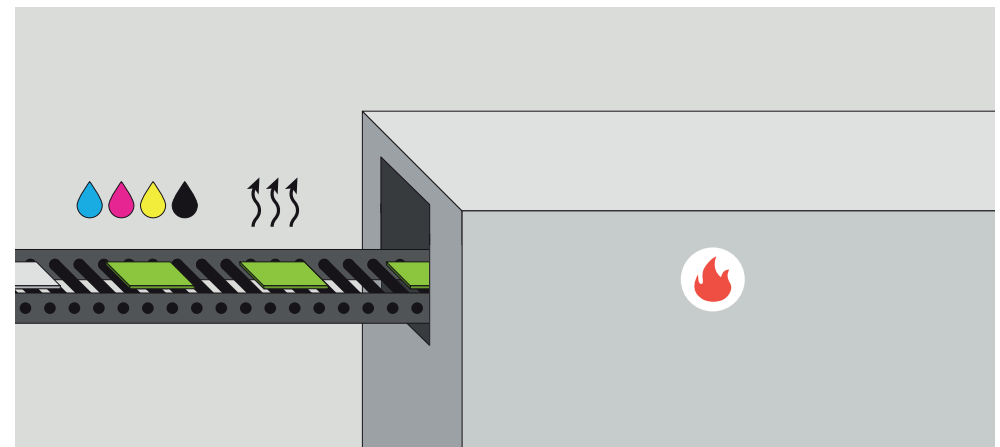
Industrial test results of Ecolor ink		Law limit*	Industrial test = 25g/m ²
VOC Volatile Organic Compounds	mg/Nm ³	50	19
Total Aldehydes	mg/Nm ³	20	3
Formaldehyde	mg/Nm ³		0,9
European Odorimetric Unit	ou _E /Nm ³	3000	408

*These law limits are applicable in Italy, but serve as a general reference for the European limits

Comparison

	Drying time on printing heads	Odor emissions	VOC emissions	Aldehyde emissions
H ₂ O based (WB)	▲	▲▲▲	▲	▲▲▲
Glycol-ether based (GE)	▲▲	▲▲	▲	▲▲▲
Fatty acid esters based (eco friendlier) (FAE)	▲▲▲	▲	▲▲	▲▲
Ecolor ink – new refined solvent based (EI)	▲▲▲	▲▲▲	▲▲▲	▲▲▲

- ▲▲▲ = very good value
- ▲▲ = value close to the threshold
- ▲ = critical value



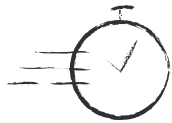
ECO SOLVENT BASED CERAMIC INKS AND GLUE



LOW ODOR, LOW EMISSIONS



BEST-IN-CLASS ECOLOGICAL SPECIFICATIONS



SIMPLE REPLACEMENT FOR EXISTING INKS AND GLUE
NO IMPACT ON PRODUCTION SPEED



UNIQUE,
PATENTED TECHNOLOGY



Interested in this innovative technology? Contact us to become a licensed partner!

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More info
and videos