




COLORS &
EFFECTS

BASF
We create chemistry

Innovations driven by concerns about ecolabels

Luconyl® NG and Xfast® pigment preparations
for paints



Luconyl® NG and Xfast® pigment preparations are compliant with the most common European ecolabels and laws, including:

- **European label 2014/312/EU:** establishing the ecological criteria for indoor and outdoor paints and varnishes.
- **Nordic Ecolabel 096, vs 3.3:** ecolabel of indoor paints and varnishes, ensuring compliance with strict environmental and health requirements.
- **Emission Decret 2011-321 (F), Belgisch Staatsblad 60603:** directives for indicating VOC emission classes of construction products installed indoors, floor and wall coverings, paints and lacquers.
- **Blue Angel RAL UZ 12A & 102:** since 2019 no longer compliant due to new requirements for biocide-free paints and varnishes

In the focus of ecolabels

Luconyl® NG and Xfast® pigment preparations for paints

BASF Colors & Effects supports customers with a wide range of innovative, environmentally friendly pigment preparations. Our **Luconyl® NG** range is state-of-the-art liquid pigment preparations which are suitable for both gravimetric and volumetric tinting purposes. Our **Xfast®** stir-in solid pigment preparations are free-flowing, low-dusting and storage-stable granules that are used for the coloration of water-based systems. Both product portfolios are suitable for manufacturing VOC-free paints for the IPT (in-plant tinting) and POS (point-of-sale) systems while ensuring compliance with the most common ecolabels and directives.

Luconyl® NG and Xfast® are FREE of ingredients with the following classifications:

Carcinogenic, mutagenic or toxic for reproduction

- H340 may cause genetic defects
- H341 suspected of causing genetic defects
- H350 may cause cancer
- H351 suspected of causing cancer
- H360 may damage fertility or the unborn child
- H361 suspected of damaging fertility or the unborn child
- H362 may cause harm to breast fed children

Acute toxicity

- H300 fatal if swallowed
- H301 toxic if swallowed
- H310 fatal in contact with skin
- H311 toxic in contact with skin
- H330 fatal if inhaled
- H331 toxic if inhaled
- H304 may be fatal if swallowed

Respiratory and skin sensitization

- H317 may cause allergic skin reaction
- H334 may cause allergy or asthma symptoms or breathing difficulties if inhaled

Specific target organ toxicity

- H370 causes damage to organs
- H371 may cause damage to organs
- H372 causes damage to organs through prolonged or repeated exposure
- H373 may cause damage to organs through prolonged or repeated exposure

Toxic to aquatic organisms

- H400 very toxic to aquatic life
- H411 toxic to aquatic life with long-lasting effects
- H412 harmful to aquatic life with long-lasting effects
- H413 may cause long-lasting effects to aquatic life

Further specific hazardous substances

- Alkylphenolyetoxylates (APEO)
- Perfluorinated surfactants
- Volatile aromatic hydrocarbons (VAH) (<100 ppm)
- Formaldehyd (<10 ppm)
- Unreacted monomers (<100 ppm)
- Plasticizers
- Heavy metals (<100 ppm)

**Preservation of Luconyl® NG and Xfast® is based on BIT and is free of CIT, MIT, OIT, ZPT.
For the use at point-of-sale Luconyl® NG is additionally protected with a fungicide (IPBC).**



In the focus of ecolabels







Luconyl® NG and Xfast® pigment preparations for paints

Luconyl® NG and Xfast® pigment preparations fulfill volatile (VOC) and semi-volatile (SVOC) requirements of organic chemicals.

| In-can content of organic compounds in paints (Test method: EN ISO 11890-2) | | | Paint emissions of organic compounds in standardized chambers in air flow at 23°C after 28 days (Test method EN ISO 16000-11) | | |
|--|-------------------|----------|--|-------------------|---------------------------|
| VOC | European Ecolabel | 10 g/l* | VOC, SVOC | European Ecolabel | No requirement |
| VOC | Nordic Ecolabel | 10 g/l* | VOC, SVOC | Nordic Ecolabel | <100 µg/m ³ * |
| VOC | Blue Angel | 700 ppm* | VOC, SVOC | French Directive | <1000 µg/m ³ * |

(*)best class or highest requirements

With Luconyl® NG and Xfast® pigment preparations, we offer our customers coloration solutions that meet the below summarized requirements of various ecolabels within the EU.

| | | VOC (*) | SVOC(*) | Emission VOC(*) | Biocides | Substances dangerous for environment | Skin sensitive compounds H317 | Heavy metals |
|-------------------------------|---|---------|---------|-----------------|----------|--------------------------------------|-------------------------------|--------------|
| Emission Decret (F) 2011-321 |  | | | ● | | | | |
| Belgisch Staatsblad 60603 | | | ● | ● | | | | |
| European Ecolabel 2014/312/EU |  | ● | ● | | ● | ● | ● | ● |
| Nordic Ecolabel 096 vs. 3.3 |  | | | ● | ● | ● | ● | ● |
| Blue Angel RAL UZ 102 |  | ● | | | | | ● | |
| Blue Angel RAL UZ- 12a |  | ● | | ● | | | ● | |
| TÜV Süd |  | ● | ● | ● | ● | | | ● |

(*)best class or highest requirements

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