









INFRALIT POWDER COATINGS

Powder coating is at the core of our strongest area of expertise. As recognition of our skills in this area, we have reached the position of market leader in the Nordic countries and we have a growing presence across the rest of Europe.

Being completely solvent-free and able to eliminate VOC emissions, powder coatings are an environmentally friendly choice for paint shops and industrial professionals. They can be recovered and recycled which helps the users to minimise waste and further improve the cost efficiency of their processes.

Our complete powder coating tinting system offers an almost unlimited choice of colours. As we operate close to our customers, even tight delivery schedules can be met.

OUR CUSTOMER PROMISES

Technically superior surfaces

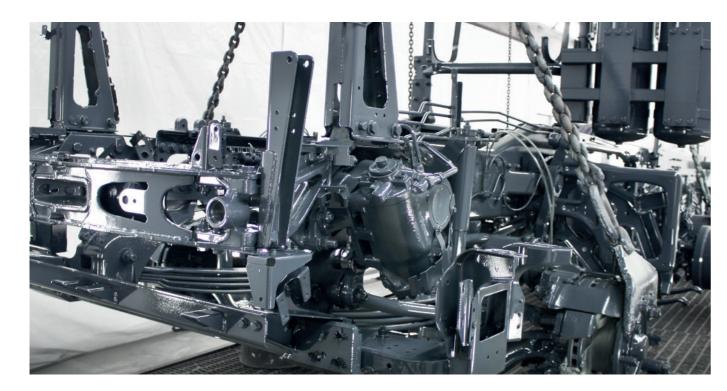
Unique technical service

Reliable supply

Consistent quality

Local presence





THREE CORE ELEMENTS LIE AT THE HEART OF THE TEKNOS WAY PARTNERSHIP

INNOVATION

Innovations are the foundation of Teknos. Superior product quality and performance standards coupled with new, more demanding environmental regulations continue to shorten product lifecycles, presenting us with new challenges on an ongoing basis. We continuously invest in R&D to ensure that we can meet these requirements.

VALUE ADDED

We offer comprehensive paint solutions and services with the optimal balance of price, performance and service.

RELIABILITY

Prompt, reliable deliveries and quality are one of today's key business priorities. Teknos' supply chain, modern production facilities, and tinting systems ensure prompt and reliable deliveries in all our chosen markets.







POWDER COATINGS FOR DIFFERENT PURPOSES

PRIMERS

Primers are used to improve adhesion when the surface has low adhesion and to fulfil high corrosivity category needs for corrosion protection in demanding conditions. Primers are also used for smoothening the surface quality and colour variation of painted substrate.

FACADE POWDER COATINGS

GSB AND QUALICOAT APPROVED

To fulfil the demands of GSB and Qualicoat Class 1 standards. Used in applications where higher weather resistance, e.g. very good gloss & colour retention are needed. These powder coatings cover a wide range of use, from interior to demanding exterior and facade applications, available in both smooth and textured finishes.

SUPER DURABLE POWDER COATINGS

GSB AND QUALICOAT APPROVED

To fulfil the demands of GSB Master and Qualicoat Class 2 standards. For Facade applications in which extreme gloss & colour retention are needed. For example when painting with customer brand colours, the shade of the colour needs to stay exactly the same for years, despite of weather conditions. Available in both smooth and textured finishes.

INDUSTRIAL POWDER COATINGS, SMOOTH FINISHES

Epoxy powder coatings have excellent mechanical and chemical resistance, whilst polyester powder coatings are flexible and a good choice for exterior industrial use. Epoxypolyesters combine good features from both binders and there is a range of different gloss levels for smooth surfaces.

CLEAR COATS

Clear coats are used to finish off the painted surface by raising the gloss level and deepening the colour shade. Clear coats also protect the paint surface. By applying certain clear coats, you can add functions for the surface, for example anti-graffiti and hygienic (antimicrobial) features.

DESIGN EFFECT POWDERS

SNAKE SKIN & WRINKLE FINISHES

The new eye-catching surface finishes, snake skin and wrinkle

bring, variation to the range of finishes. Being polyurethane based, these powder coatings have excellent weather and chemical resistance and can be used in wide range of applications - from industrial applications to design products.

STRUCTURE POWDER COATINGS

HAMMER FINISH

Structured finishes provide vivid and visual appearance. The structured finish also forgives minor mistakes on substrate surface. Structured powder coatings are available as epoxy, polyester and hybrid.

FINE TEXTURE POWDER COATINGS

SANDPAPER FINISH

Textured surface quality has the look and feel of sandpaper. The products are available as epoxy, polyester and hybrid.

LTC, LOW TEMPERATURE CURING POWDER COATINGS

For curing, powder coatings need the painted object to heat approximately up to 180°. With massive steel components, the heating takes a lot of energy and time. LTC coatings cure at significantly lower temperatures, providing savings in energy and time with significantly faster throughput in line. Coatings are recommended for heavy components and objects that cannot stand the heat of 180°. The range offers LTC powders curing from 130°, with different gloss levels and effects.

TEANING POWDER

Cleaning powder is designed for cleaning of powder coating painting lines between colour changes. Powder is blown through hoses, venturis, painting booths, cyclones etc, and when going through the system it releases and gathers excess powder coating and other impurities.

Cleaning powder is especially recommended with challenging changes, for example when changing from black to white, or from structured to smooth finish. Cleaning powder helps eliminating quality problems after colour change. The product should not be used as replacement for regular cleaning of the powder coating line.







FUNCTIONAL COATINGS



HYGIENIC COATINGS

Antimicrobial coating solutions have demonstrated remarkable reductions in bacteria in independent laboratory tests, as well as significant reductions of healthcare-associated infections in real-life hospital environments. Antimicrobial paints are ideal for facilities with high hygiene standards, such as hospitals, schools, kindergartens, and homes for the elderly, to help reduce microbial populations on contact surfaces. Antimicrobial coatings can be applied to, for example, door handles, arm supports, railings, faucets, vents, furniture, and walls, all of which serve as vehicles for microbes.

The effect of antimicrobial paint is based on silver phosphate glass added to the paint. It is distributed throughout the paint's composition. This ingredient of the paint actively destroys bacterial growth and prevents bacterial division. The antibacterial effect of the coating will last as long as any paint remains, as the antimicrobial active ingredient is distributed throughout the paint.

- Reduction of the number of diseases and infections transmitted through contact
- Reduction of the spread of antibiotic-resistant bacterial
- Reduction of healthcare costs
- Reduction of the rate of absence from work due to illnes

FLEXIBLE COATINGS

When there is a need for elasticity within the paint film because of the painted object or its usage, flexible powder is the solution. These powder coatings are designed for post-forming and bending afterwards.

CONDUCTIVE COATINGS

Usually, the paint film functions as insulation but conductive powder coatings conduct electricity. These coatings can be used for example in the electronic industry, preventing static charge from damaging sensitive electronic components. Conductive powder coatings are available with smooth and textured surfaces.



ANTI-GRAFFITI COATINGS

ENABLING EASIER CLEANING

To facilitate the removal of unwanted graffiti, Teknos has developed powder coatings with anti-graffiti properties. Anti-graffiti coatings provide the greatest benefits to structures in public places such as bus stops, trash cans and bridges and in applications that are exposed to dirt and need to be cleaned regularly, for instance trains.

- Forms a dense protective film that withstands solvent-based graffiti-removers and prevents the graffiti from penetrating deep in to the surface
- The film has a slippery finish which aids in the removal of graffiti
- Tolerates cleaning chemicals well with no changes within the paint gloss and colour.

OTHER FUNCTIONAL COATINGS

Included in our selection is also superstrong epoxy for extremely hard mechanical and chemical abrasion, to be used for example in tanks and containers, immersion applications and industrial/heavy-duty applications. Superstrong epoxy can be applied as thick film up to 480 µm with a single layer.

The functional powder coatings range covers also camouflage paints, which are non-reflective for IR. These products are for military applications.



HEAT-RESISTANT COATINGS

Heat and rapid temperature fluctuations contribute to surface cracking and corrosion. Teknos has developed coatings that can withstand heat and prevent corrosion at the same time. Heatresistant powder coatings solutions are suitable for objects that are exposed to high temperatures, such as:

- Pipelines
- Exhaust pipes
- Heat shields
- Stoves
- Grills
- Fireplaces
- Chimneys





POWDER COATING AS A CORROSION PROTECTION METHOD

Teknos INFRALIT Powder Coating systems have been designed to fulfil the test methods and testing times defined for specific corrosivity category in ISO 12944-6, even though powder coatings are not covered by the standard.

| Examples of the | e equivalence of | wet paint and powder coating | | |
|--------------------------------|----------------------------------|---|-------------------------------|------------------------------------|
| ISO 12944-5:2018 System no. | Powder coating paint system code | Powder coating paint system structure INFRALIT | Wet paint system code example | Wet paint system structure example |
| C3/M | P218b | PE 8350-15 80-1 FeSa2 1/2 | TEC3.05/M/A5 | PUR120/1-FeSa 2½ |
| C4/M | P218d | PE 8350-15 100/1 FeSa 2 1/2 | TEC4.05/M/A5 | PUR180/2-FeSa 2½ |
| C5/M | P229j | PE 8350-15 140/2 ZnSaS | TEC5.02/M/A5 | PUR240/2-FeSa 2½ |
| C5/H | P219f | EP/PE 8086-05 60/1 PE 8350-15 100/1 FeSa 2 1/2 | TEC5.07/H/A3 | EPZn(R)PUR260/3-FeSa 2½ |
| C5/H | P219a | EP/PE 8086-05 60/1 EP 8026-00 100/1 FeSa 2 1/2 | TEC5.07/H/A1 | EPZn(R)EP260/3-FeSa 2½ |
| C5/VH | P229i | EP/PE 8087-30 60/1 PE 8350-15 80/1 ZnSaS | TEG3.04/VH/T4 | EPPUR160/2-ZnSaS |
| lm3/VH | P234c | EP 8024-00 480/1 (2) FeSa 2 1/2 | TEI.04/VH/A1 | EP540/3-FeSa 2½ |

These Teknos painting systems have been tested in accordance with ISO 12944:2017-2018 standards. In order to reach the durability ranges in specified corrosivity categories, care must be taken to ensure full compliance of steel construction design, steel prework and surface preparation quality with ISO 12944 standards.



PAINT SYSTEMS

Atmospheric corrosivity categories ISO 12944-5: 2018

| Powder coating paint system code | Paint system | Iron phosphating | Zinc phosphating | Thin film technology, TFT |
|----------------------------------|---|--|--|---|
| P243a | INFRALIT PE 8350 80/1 | х | х | X |
| P243b | INFRALIT PE 8350 100/1 | | Х | Х |
| P243c | INFRALIT PE 8350 80/1 INFRALIT PE 8350 80/1 | | Х | х |
| P243d | INFRALIT EP/PE 8087-30 80/1 INFRALIT PE 8350 80/1 | | X | Х |
| P243f | INFRALIT EP/PE 8086-05 60/1 INFRALIT PE 8350 100/1 | | X | Х |
| P243e | INFRALIT EP 8024 120/1 | | Х | X |
| P243g | INFRALIT PE 8350 80/1 INFRALIT PE 8350 80/1 | | х | |
| | P243a P243b P243c P243d P243f P243e | paint system code P243a INFRALIT PE 8350 80/1 P243b INFRALIT PE 8350 100/1 P243c INFRALIT PE 8350 80/1 INFRALIT PE 8350 80/1 P243d INFRALIT EP/PE 8087-30 80/1 INFRALIT PE 8350 80/1 P243f INFRALIT EP/PE 8086-05 60/1 INFRALIT PE 8350 100/1 P243e INFRALIT EP 8024 120/1 P243g INFRALIT PE 8350 80/1 | Paint system code phosphating P243a INFRALIT PE 8350 80/1 x P243b INFRALIT PE 8350 100/1 x P243c INFRALIT PE 8350 80/1 x P243d INFRALIT EP/PE 8087-30 80/1 x P243d INFRALIT EP/PE 8087-30 80/1 x P243f INFRALIT EP/PE 8086-05 60/1 x INFRALIT EP 8350 100/1 x x P243e INFRALIT EP 8024 120/1 x | Paint system code phosphating phosphating P243a INFRALIT PE 8350 80/1 x P243b INFRALIT PE 8350 100/1 x P243c INFRALIT PE 8350 80/1 x P243d INFRALIT EP/PE 8087-30 80/1 x P243d INFRALIT EP/PE 8086-05 60/1 x P243f INFRALIT EP/PE 8086-05 60/1 x P243e INFRALIT EP 8024 120/1 x P243g INFRALIT PE 8350 80/1 x |

Steel surfaces: Chemical pre-treatment should be made according to instructions given by the pre-treatment chemical supplier. The pre-treatment should cover all areas of the target substrate.

TESTING METHODS

EN ISO 9227 Corrosion tests in artificial atmospheres. Salt spray tests

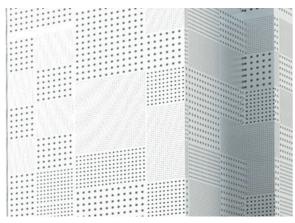
EN ISO 6270-1 Paints and varnishes. Determination of resistance to humidity. Part 1: Continuous condensation

EN ISO 2812-2 Paints and varnishes. Determination of resistance to liquids. Part 2: Water immersion method

Tests have been performed on test panels prepared in laboratory conditions







CALCULATIONS

Powder Coating

Theoretical spreading rate m²/ kg

| Powde | er coating' | s density ; | g/cm³ | | | | | | | |
|-------|-------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| FT µm | 1 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 |
| 30 | 33.33 | 30.30 | 27.78 | 25.64 | 23.81 | 22.22 | 20.83 | 19.61 | 18.52 | 17.54 |
| 35 | 28.57 | 25.97 | 23.81 | 21.98 | 20.41 | 19.05 | 17.86 | 16.81 | 15.87 | 15.04 |
| 40 | 25.00 | 22.73 | 20.83 | 19.23 | 17.86 | 16.67 | 15.63 | 14.71 | 13.89 | 13.16 |
| 50 | 20.00 | 18.18 | 16.67 | 15.38 | 14.29 | 13.33 | 12.50 | 11.76 | 11.11 | 10.53 |
| 60 | 16.67 | 15.15 | 13.89 | 12.82 | 11.90 | 11.11 | 10.42 | 9.80 | 9.26 | 8.77 |
| 65 | 15.38 | 13.99 | 12.82 | 11.83 | 10.99 | 10.26 | 9.62 | 9.05 | 8.55 | 8.10 |
| 70 | 14.29 | 12.99 | 11.90 | 10.99 | 10.20 | 9.52 | 8.93 | 8.40 | 7.94 | 7.52 |
| 75 | 13.33 | 12.12 | 11.11 | 10.26 | 9.52 | 8.89 | 8.33 | 7.84 | 7.41 | 7.02 |
| 80 | 12.50 | 11.36 | 10.42 | 9.62 | 8.93 | 8.33 | 7.81 | 7.35 | 6.94 | 6.58 |
| 85 | 11.76 | 10.70 | 9.80 | 9.05 | 8.40 | 7.84 | 7.35 | 6.92 | 6.54 | 6.19 |
| 90 | 11.11 | 10.10 | 9.26 | 8.55 | 7.94 | 7.41 | 6.94 | 6.54 | 6.17 | 5.85 |
| 100 | 10.00 | 9.09 | 8.33 | 7.69 | 7.14 | 6.67 | 6.25 | 5.88 | 5.56 | 5.26 |
| 120 | 8.33 | 7.58 | 6.94 | 6.41 | 5.95 | 5.56 | 5.21 | 4.90 | 4.63 | 4.39 |
| 140 | 7.14 | 6.49 | 5.95 | 5.49 | 5.10 | 4.76 | 4.46 | 4.20 | 3.97 | 3.76 |
| 160 | 6.25 | 5.68 | 5.21 | 4.81 | 4.46 | 4.17 | 3.91 | 3.68 | 3.47 | 3.29 |
| 180 | 5.56 | 5.05 | 4.63 | 4.27 | 3.97 | 3.70 | 3.47 | 3.27 | 3.09 | 2.92 |







POWDER COATINGS CAN BE
RECOVERED AND RECYCLED, HELPING
USERS TO MINIMISE WASTE AND
FURTHER IMPROVE THE COST
EFFICIENCY OF THEIR PROCESSES.



Primers

| Description | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|--|--------|------------|--|---|
| INFRALIT EP/PE 8087-30 Zinc-free primer, High corrosion environment Developed mainly for use as a primer under another INFRALIT powder coating. A paint system of two coats provides a thicker protective layer and helps the coating of sharp edges. Fast availability: Stock item ID BM80624020 (RAL 7001) | Hybrid | Matt | 10/180°C | Group M1 Classification IMO FTPC part 5 and part 2 |
| INFRALIT EP/PE 8086-05 Zinc-rich, Extreme corrosion environment Based on epoxy and polyester resin containing metallic zinc, which has very good anticorrosive properties. Suitable as a primer under another INFRALIT powder coating. A paint system of two coats provides a thicker protective layer and helps the coating of sharp edges. Fast availability: Stock item ID BZN8000020 (ZINC GREY) | Hybrid | Semi-gloss | 10/180°C | |

Facade powder coatings GSB & Qualicoat approved

| | | Dura | ability | | | | Curing time / | |
|--|--------|-----------------------|-------------------|---------------------|-------------------------------|---------------------|--|---|
| Description | Indoor | Industrial outdoor | Excellent outdoor | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
| INFRALIT PE 8339-02 Architectural & Facade applications, High Gloss Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. Suitable for corona only. | • | • | • | | Polyester, smooth | Gloss 81-99 | 10 - 25 min/180°C, 7 - 12 min/200°C | Qualicoat class 1 |
| INFRALIT PE 8339-09 Metallic shade, Architectural & Facade applications, High Gloss Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. Suitable for corona only. | • | • | • | | Polyester, smooth | Gloss 81-99 | 10 - 25 min/180°C, 7 - 12 min/200°C | Qualicoat class 1 |
| INFRALIT PE 8350-07 Bonded metallic shade, Architectural & Facade applications, Semi-gloss Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. RAL Classic colours 841-GL metallics available as stock items. | • | • | • | | Polyester, smooth | Semi-gloss 65-85 | 10 - 25 min/180°C, 9 - 15 min/190°C, 7 - 12 min/200°C | GSB standard, Qualicoat class 1 Marine equipment approval Group M1 classification EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8350-15 Architectural & Facade applications, Semi-gloss Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. RAL Classic colours 841-GL available as stock items. | • | • | • | | Polyester, smooth | Semi-gloss 71-85 | 10 - 25 min/180°C, 9 - 15 min/190°C, 7 - 12 min/200°C | GSB standard, Qualicoat class 1 Marine equipment approval Group M1 classification EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8350-20 Architectural & Facade applications, Semi-gloss, Fast delivery time, Batch size starting from 5kg Fast and flexible service and delivery for custom colours & smaller batches. | • | • | • | | Polyester, smooth | Semi-gloss 65-85 | 10 - 25 min/180°C, 9 - 15 min/190°C, 7 - 12 min/200°C | GSB standard, Qualicoat class 1 Marine equipment approval Group M1 classification EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8350-77 DECO Bonded metallic shade, Architectural & Facade applications, Semi-gloss, Fast delivery time Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. RAL 841-GL Classic colours with three different metal pigmentations. | • | • | • | | Polyester, smooth | Semi-gloss 65-85 | 10 - 25 min/180°C, 9 - 15 min/190°C, 7 - 12 min/200°C | GSB standard, Qualicoat class 1 Marine equipment approval Group M1 classification EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8921-00 Architectural & Facade applications, Textured Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. | • | • | • | | Polyester, fine texture | Matt 5-15 | 15 - 25 min/180°C, 10 - 20 min/190°C, 8 - 12 min/200°C | Qualicoat class 1 |
| INFRALIT PE 8928-00 Architectural & Facade applications, Matt Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. RAL Classic colours 841-HR available as stock items. | • | • | • | | Polyester, smooth | Matt 23-33 | 15 - 25 min/180°C, 10 - 20 min/190°C, 8 - 12 min/200°C | GSB standard, Qualicoat class 1 Marine equipment approval Group M1 classification EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8928-07 Bonded metallic shade, Architectural & Facade applications, Matt Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. | • | • | • | | Polyester, smooth | Matt 23-33 | 15 - 25 min/180°C, 10 - 20 min/190°C, 8 - 12 min/200°C | GSB standard, Qualicoat class 1 Marine equipment approval Group M1 classification EN45545: Fire protection on railway vehicles |

• = Recommended use • Suitable TEKNOS / PRODUCT INFORMATION / INFRALIT POWDER COATINGS 17



Super durable powder coatings GSB & Qualicoat approved

| | | Dur | rability | | | | | |
|--|--------|-----------------------|----------------------|---------------------|----------------------------|-----------------------------|--|----------------------------------|
| Description | Indoor | Industrial outdoor | Excellent outdoor | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
| INFRALIT PE 8735-00 Architectural & Facade applications, Superior weather resistance, Matt Superior colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. | 0 | 0 | 0 | • | Polyester, smooth | Matt 23-33 | 15 - 20 min/180°C, 12 - 15 min/190°C, 10 - 13 min/200°C | GSB MASTER Qualicoat class 2 |
| INFRALIT PE 8791-02 Architectural & Facade applications, Superior weather resistance, Textured Superior colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. Suitable for corona only. | 0 | 0 | 0 | • | Polyester, fine texture | Matt 3-10 | 15 - 25 min/180°C, 10 - 20 min/190°C, 8 - 12 min/200°C | Qualicoat class 2 |
| INFRALIT PE 8791-07 Bonded metallic shade, Architectural & Facade applications, Superior weather resistance, Textured Superior colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. | 0 | 0 | 0 | • | Polyester, fine texture | Matt 3-10 | 15 - 25 min/180°C, 10 - 20 min/190°C, 8 - 12 min/200°C | Qualicoat class 2 |
| INFRALIT PE 8795-00 Architectural & Facade applications, Superior weather resistance, Gloss Superior colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. | | 0 | 0 | • | Polyester, smooth | Semi-gloss, Gloss, 75-95 | 15min/180°C | |
| INFRALIT PE 8796-00 Architectural & Facade applications, Superior weather resistance, Semi-gloss Superior colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. | | 0 | 0 | • | Polyester, smooth | Semi-gloss 65-85 | 15-25 min/180 °C, 10-20 min/190 °C | GSB MASTER, Qualicoat class 2 |

Industrial epoxies & hybrids, smooth finishes (Indoor & Special conditions only)

| Description | Indoor | Dura Industrial outdoor | bility Excellent outdoor | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|---|--------|-------------------------------|--------------------------------|---------------------|-------------------|-----------------|-------------------------------------|---|
| INFRALIT EP 8025-00 Industrial/heavy-duty applications, Excellent chemical & mechanical resistance, Gloss Recommended for indoors or to be top coated because of chalking in UV. Good abrasion and impact resistance. Excellent anticorrosive properties. | • | 0 | | | Epoxy, smooth | Gloss | 10 min/180°C | |
| INFRALIT EP 8026-00 Industrial/heavy-duty applications, Excellent chemical & mechanical resistance, Semi- gloss Recommended for indoors or to be top coated because of chalking in UV. Good abrasion and impact resistance. Excellent anticorrosive properties. | • | 0 | | | Epoxy, smooth | Semi-gloss | 10 min/180°C | |
| INFRALIT EP 8027-00 Industrial/heavy-duty applications, Excellent chemical & mechanical resistance, Matt Recommended for indoors or to be top coated because of chalking in UV. Good abrasion and impact resistance. Excellent anticorrosive properties. | • | 0 | | | Epoxy, smooth | Semi-matt, matt | 10 min/200°C, 15 min/190°C | |
| INFRALIT EP/PE 8085-00 Indoor applications, Good chemical & mechanical resistance, Gloss Recommended for indoors. Hybrid chemistry combines good properties of epoxy & polyester for indoor appliance applications. | • | | | | Hybrid, smooth | Gloss | 15 min/180°C | Group M1 Classification IMO FTPC part 5 and part 2 |
| INFRALIT EP/PE 8086-00 Indoor applications, Good chemical & mechanical resistance, Semi-gloss Recommended for indoors. Hybrid chemistry combines good properties of epoxy & polyester for indoor appliance applications. | • | | | | Hybrid, smooth | Semi-gloss | 15 min/180°C | Group M1 Classification IMO FTPC part 5 and part 2 |
| INFRALIT EP/PE 8087-00 Indoor applications, Good chemical & mechanical resistance, Matt Recommended for indoors. Hybrid chemistry combines good properties of epoxy & polyester for indoor appliance applications. | • | | | | Hybrid, smooth | Matt | 10 min/200°C | Group M1 Classification IMO FTPC part 5 and part 2 |

● = Recommended use O = Suitable TEKNOS / PRODUCT INFORMATION / INFRALIT POWDER COATINGS 19



Industrial polyesters, smooth finishes

| Description | Indoor | Durability Industrial Excellent Superior | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|--|--------|---|----------------------|------------|---|---|
| INFRALIT PE 8315-00 Outdoor & Indoor industrial applications, Gloss Good multi-use product for basic metal industry. | • | outdoor outdoor | Polyester, smooth | Gloss | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8316-00 Outdoor & Indoor industrial applications, Semi-gloss Good multi-use product for basic metal industry. | • | • | Polyester, smooth | Semi-gloss | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8316-07 Bonded metallic shade, Outdoor & Indoor industrial applications, Semi-gloss Good multi-use product for basic metal industry. | • | • | Polyester, smooth | Semi-gloss | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8317-00 Outdoor & Indoor industrial applications, Matt Good multi-use product for basic metal industry. | • | • | Polyester, smooth | Matt | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles Marine equipment approval |
| INFRALIT PE 8317-10 Outdoor & Indoor industrial applications, Full-matt Good multi-use product for basic metal industry. | • | • | Polyester, smooth | Full-matt | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles Marine equipment approval |

Clear coats

| Description | Indoor | Durability Industrial Excellent Superior outdoor outdoor outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|--|--------|--|----------------------|-------|-------------------------------------|--|
| INFRALIT PUR 8450-20 Weather & mechanical protection, Good chemical resistance, Gloss Fast availability: Stock item ID UA40110020 | • | • | Polyurethane, smooth | Gloss | 15 min/200°C | |
| INFRALIT PUR 8453-20 Weather & mechanical protection, Excellent chemical resistance, With anti-graffiti properties, Gloss. Stock Item ID: UA40136020 | • | • | Polyurethane, smooth | Gloss | 15 min/200°C | |
| INFRALIT PE 8435-10 Weather & mechanical protection, Hygienic applications, Gloss Powder is suitable for applications where antimicrobial properties are needed. Fact availability: Stock item ID DA40022020 | • | • | Polyester, smooth | Gloss | 15 min/190°C | Fulfils the requirements of ISO 22196 for preventing the growth of certain microbes. |

Design effect powder coatings: Snake skin & wrinkle finish

| Description | Indoor | Durability Industrial Exce outdoor outd | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|---|--------|---|---------------------|--------------------------|-----------|--|----------------------------------|
| INFRALIT PUR 8458-00 Snake skin effect, Design applications For special visual appearance, good weather resistance. | • | • | | Polyurethane, snake skin | Full-matt | 15 min/200°C, 25 min/190°C, 30 min/180°C | |
| INFRALIT PUR 8459-00 Wrinkle effect, Design applications For special visual appearance, good weather resistance. | • | • | | Polyurethane, wrinkle | Matt | 15 min/200°C, 25 min/190°C, 30 min/180°C | |



Structured powder coatings: Hammer finish

| Description | Indoor | Dura Industrial outdoor | bility Excellent outdoor | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|---|--------|-------------------------------|--------------------------------|---------------------|----------------------|-----------|---|--|
| INFRALIT EP 8022-00 Indoor, Industrial applications, Excellent chemical & mechanical protection Excellent anticorrosive properties. | • | | | | Epoxy, structure | Structure | 10 min/180°C | |
| INFRALIT EP/PE 8082-00 Indoor, Industrial applications, Good chemical & mechanical protection Hybrid chemistry combines good properties from epoxy & polyester for indoor applications. | • | | | | Hybrid, structure | Structure | 15 min/180°C | |
| INFRALIT PE 8312-00 Outdoor & Indoor, Industrial applications Good multi-use product for basic metal industry for structured finish. | • | • | | | Polyester, structure | Structure | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8312-09 Metallic shades, Outdoor & Indoor, Industrial applications Good multi-use product for basic metal industry for structured finish. | • | • | | | Polyester, structure | Structure | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles |

Textured powder coatings: Sandpaper finish

| Description | Indoor | Dura Industrial outdoor | bility Excellent outdoor | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|--|--------|-------------------------------|--------------------------------|---------------------|--------------------|-----------|--|---|
| INFRALIT EP 8021-00 Indoor, Industrial applications, Excellent chemical & mechanical protection Excellent anticorrosive properties. Recommended for indoors or to be top coated because of chalking in UV. | • | | | | Epoxy, texture | Matt | 10 min/180°C | |
| INFRALIT EP/PE 8081-00 Indoor, Industrial applications, Good chemical & mechanical protection Hybrid chemistry combines good properties of epoxy & polyester for indoor applications. Recommended for indoors or to be top coated because of chalking in UV. | • | | | | Hybrid, texture | Matt | 15 min/180°C | Group M1 Classification IMO FTPC part 5 and part 2 |
| INFRALIT PE 8311-00 Outdoor & Indoor, Industrial applications Good multi-use product for basic metal industry for textured finish. | • | • | | | Polyester, texture | Matt | 20 min/170°C, 10 min/180°C, 6 min/200°C | |
| INFRALIT PE 8921-00 Architectural & Facade applications, Textured Good colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. | • | • | • | | Polyester, texture | Matt 5-15 | 15 - 25 min/180°C, 10 - 20 min/190°C, 8 - 12 min/200°C | Qualicoat class 1 |
| INFRALIT PE 8791-02 Architectural & Facade applications, Superior weather resistance, Textured Superior colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. Suitable for corona only. | 0 | 0 | • | • | Polyester, texture | Matt 3-10 | 15 - 25 min/180°C, 10 - 20 min/190°C, 8 - 12 min/200°C | Qualicoat class 2 |
| INFRALIT PE 8791-07 Bonded metallic shade, Architectural & Facade applications, Superior weather resistance, Textured Superior colour stability, gloss retention and corrosion protection for architectural applications. Especially developed for aluminium objects. | 0 | 0 | • | • | Polyester, texture | Matt 3-10 | 15 - 25 min/180°C, 10 - 20 min/190°C, 8 - 12 min/200°C | Qualicoat class 2 |



Functional coatings: Anti-graffiti

| Description | Indoor | Dura Industrial outdoor | ability Excellent outdoor | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|--|--------|-------------------------------|---------------------------------|---------------------|-------------------------|------------|--|----------------------------------|
| INFRALIT PUR 8455-00 Anti-graffiti, Excellent chemical resistance & good mechanical resistance, Gloss For objects where special resistance to chemical and washing is required, e.g. gasoline pumps, good weathering properties. Better resistance to chemicals than with traditional polyester and polyurethane powders. | • | • | | | Polyurethane, smooth | Gloss | 15 min/200°C | |
| INFRALIT PUR 8455-07 Anti-graffiti, Bonded metallic shade, Excellent chemical resistance & good mechanical resistance, Gloss For objects where special resistance to chemical and washing is required, e.g. gasoline pumps, good weathering properties. Better resistance to chemicals than with traditional polyester and polyurethane powders. | • | • | | | Polyurethane, smooth | Gloss | 15 min/200°C | |
| INFRALIT PUR 8456-00 Anti-graffiti, Excellent chemical resistance & good mechanical resistance, Semi-gloss For objects where special resistance to chemical and washing is required, e.g. gasoline pumps, good weathering properties. Better resistance to chemicals than with traditional polyester and polyurethane powders. | • | • | | | Polyurethane, smooth | Semi-gloss | 15 min/200°C | |
| INFRALIT PUR 8457-00 Anti-graffiti, Excellent chemical resistance & good mechanical resistance, Matt For objects where special resistance to chemical and washing is required, e.g. gasoline pumps, good weathering properties. Better resistance to chemicals than traditional polyester and polyurethane powders. | • | • | | | Polyurethane, smooth | Matt | 15 min/200°C | |

Check also Clear coats on pages 20-21

Functional coatings: Antimicrobial

| | | Dura | ability | | | | Curing time / | |
|--|--------|-----------------------|-------------------|---------------------|-------------------|------------|-----------------------|--|
| Description | Indoor | Industrial outdoor | Excellent outdoor | Superior outdoor | Туре | Gloss | substrate temperature | Approvals, check TDS for details |
| INFRALIT EP/PE 8235-30 Antimicrobial properties, for hygienic applications like hospitals, day cares, sheltered homes, e.g. beds, railings, door handles, Matt Good chemical & mechanical resistance. Recommended for indoors because of chalking in UV. | • | | | | Hybrid, smootl | Matt | 10 min/200°C | INFRALIT EP 8035 Epoxy Powder fulfils the requirements of ISO 22196 for preventing the growth of certain microbes. |
| INFRALIT EP/PE 8235-75 Antimicrobial properties, for hygienic applications like hospitals, daycares, sheltered homes, e.g. beds, railings, door handles etc, Semi-gloss Good chemical & mechanical resistance. Recommended indoor because of chalking in UV. | • | | | | Hybrid, smootl | Semi-gloss | 15 min/180°C | INFRALIT EP 8035 Epoxy Powder fulfils the requirements of ISO 22196 for preventing the growth of certain microbes. |
| INFRALIT EP/PE 8235-90 Antimicrobial properties, for hygienic applications like hospitals, daycares, sheltered homes, e.g. beds, railings, door handles etc, Gloss Good chemical & mechanical resistance. Recommended indoor because of chalking in UV. | • | | | | Hybrid, smootl | Gloss | 15 min/180°C | INFRALIT EP 8035 Epoxy Powder fulfils the requirements of ISO 22196 for preventing the growth of certain microbes. |
| Antimicrobial properties, for hygienic applications like hospitals, daycares, sheltered homes, e.g. beds, railings, door handles etc, Gloss | • | | | | | Gloss | 15 min/180°C | |

Check also Clear coats on pages 20-21

Functional coatings: Conductive

| Description | Indoor | Durabi Industrial outdoor | Superior outdoor | Туре | Gloss | Curing time / Approvals, check TDS for details substrate temperature |
|--|--------|---------------------------------|---------------------|-----------------|------------|--|
| INFRALIT EP/PE 8092-00 Semi-conductive, Electronic industry appliances (ESD) Recommended for indoors or to be top coated because of chalking in UV. Developed for areas within the electronics industry where electrostatic discharge is a problem. | • | | | Hybrid, smooth | Semi-gloss | 15 min/180°C |
| INFRALIT EP/PE 8093-04 Conductive, Electronic industry appliances (ESD), Textured Recommended for indoors or to be top coated because of chalking in UV. Developed for areas within the electronics industry where electrostatic discharge is a problem. | • | | | Hybrid, texture | Texture | 15 min/180°C |

• = Recommended use • Suitable TEKNOS / PRODUCT INFORMATION / INFRALIT POWDER COATINGS 25



Functional coatings: Flexible

| Description | Indoor | Dura Industrial outdoor | ability Excellent outdoor | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|--|--------|-------------------------------|---------------------------------|---------------------|-------------------|------------|---|--|
| INFRALIT PE 8315-08 Flexible, Appliance for post-forming after application, Gloss Powder forms a paint film which has good flexibility for bending/forming. | • | • | | | Polyester, smooth | Gloss | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8316-08 Flexible, Appliance for post forming after application, Semi-gloss Powder forms a paint film which has good flexibility for bending/forming. | • | • | | | Polyester, smooth | Semi-gloss | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8317-08 Flexible, Appliance for post forming after application, Matt Powder forms a paint film which has good flexibility for bending/forming. | • | • | | | Polyester, smooth | Matt | 20 min/170°C, 10 min/180°C, 6 min/200°C | EN45545: Fire protection on railway vehicles |
| INFRALIT PE 8540-41 Super-flexible, Appliance for post forming after application, Semi-gloss Powder forms a paint film which has good flexibility for bending/forming. | • | • | | | Polyester, smooth | Semi-gloss | 10 min/180°C | |

Functional coatings: Special powder coatings

| Description | Indoor | Durability Industrial Excellent Superior outdoor outdoor outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
|---|--------|--|-------------------|-----------|--|---|
| INFRALIT EP 8024-00 Tanks & containers, immersion applications, industrial/heavy-duty applications, Excellent chemical & mechanical resistance Especially inside oil/gas tanks & containers etc., also for immersion applications. Recommended for indoors or to be top coated because of chalking in UV. | • | 0 | Epoxy, smooth | Glossy | 10 min/180°C | |
| INFRALIT PE 8431-10 Camouflage appliance Requires primer according to camouflage coating system K122. Camouflage shades. | • | • | Polyester, smooth | Full-matt | 15 min/210°C | The Finnish Defence Forces M064 version 2.0 |
| INFRALIT SI 8009-02 Heat resistance, texture (sand paper) surface, indoor & outdoor Suitable for applications like heat covers, exhaust pipes, grills, ovens etc. For objects that must endure temperatures up to 600°C. Suitable for corona only. | • | • | Silicone, texture | Texture | 30 min/200°C | |

Pipeline coatings

| | | Dura | ability | | | | Curing time / | | |
|---|------------|--------------------|---------|-------------------|---------------------|------------|---|--|----------------------------------|
| Description | ' Indoor ' | Indoor Indu out | | Excellent outdoor | Superior outdoor | Туре | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
| INFRALIT 8024-10 Corrosion protection of pipeline internal surfaces Good abrasion resistance, impact resistance and elasticity, high scratch resistance | • | • | | | FBE | | | | |
| INFRALIT EP 8054 For external protections, used as a primer in a 3-layer system with polyolefins, suitable for pipelines operating in temperatures up to +90 °C Excellent mechanical properties, high scratch resistance, meets the key requirements of FBE coating specifications, adjustable application window | • | • | | | FBE | Semi-gloss | Special curing. Check TDS for more information. | Approved by BashNIPIneft Institute and Gubkin University | |
| INFRALIT EP 8064 Corrosion protection of pipeline external surfaces Used together with reactive polyolefins when coating steel pipes. Coatings applied with a Wehocoat device are extremely hard-wearing and as durable as a factory-applied pipe coating. Field-applied coating fulfils the same ISO 21809 demands as factory-applied. | • | • | | | FBE | | | | |
| INFRALIT EP 8074 For internal and external protection, suitable for pipelines operating in high temperatures, working area up to +150 °C High scratch resistance, high chemical resistance, glass transition temperature Tg +130 - +160 °C, depending on formulation | • | • | | | FBE | Gloss | Special curing. Check TDS for more information. | Approved by TatNIPIneft Institute | |



Low temperature curing powder coatings

| Description | | Dura | ability | | T | Class | C to the telephone of a | A LITEGE LITE |
|--|--------|-----------------------|----------------------|---------------------|-------------------------|-------------------|---|----------------------------------|
| Description | Indoor | Industrial outdoor | Excellent outdoor | Superior outdoor | Type | Gloss | Curing time / substrate temperature | Approvals, check TDS for details |
| INFRALIT EP 8024-21 Low curing 140°C, for heavy & heat sensitive objects and for lower energy consumption Industrial applications, excellent chemical & mechanical resistance. High production capacity and energy conservation due to fast curing. Recommended for indoors because of chalking in UV. | • | 0 | | | Epoxy, smooth | Glossy | 15 min/140°C | |
| INFRALIT EP 8024-23 Low curing 130°C, for heavy & heat sensitive objects and for lower energy consumption Industrial applications, excellent chemical & mechanical resistance. High production capacity and energy conservation due to fast curing. Recommended for indoors because of chalking in UV. | • | 0 | | | Epoxy, smooth | Glossy | 15 min/130°C | |
| INFRALIT EP/PE 8241-00 Textured finish, low curing 130°C, for heavy & heat sensitive objects and for lower energy consumption Industrial applications, very good chemical & mechanical resistance. High production capacity and energy conservation due to fast curing. Recommended for indoors because of chalking in UV. | • | | | | Hybrid, fine texture | Texture | 20 min/130°C, 10 min/145°C, 5 min/165°C | |
| INFRALIT PE 8640-00 Low curing 160°C, for heavy & heat sensitive objects and for lower energy consumption Industrial applications, good chemical & mechanical resistance. High production capacity and energy conservation due to fast curing. | • | • | | | Polyester, smooth | Glossy/Semi-gloss | 10 min/160°C, 9 min/170°C, 6 min/180°C, 3 min/200°C | |
| INFRALIT PE 8641-00 Textured finish, low curing 160°C, for heavy & heat sensitive objects and for lower energy consumption Industrial applications, good chemical & mechanical resistance. High production capacity and energy conservation due to fast curing. | • | • | | | Polyester, fine texture | Texture | 10 min/160°C, 6 min/180°C, 3 min/200°C | |
| INFRALIT PE 8642-00 Structured finish, low curing 160°C, for heavy & heat sensitive objects and for lower energy consumption Industrial applications, good chemical & mechanical resistance. High production capacity and energy conservation due to fast curing. | • | • | | | Polyester, structure | Structure | 10 min/160°C, 6 min/180°C | |
| INFRALIT PE 8643-00 Matt, low curing 160°C, for heavy & heat sensitive objects and for lower energy consumption Industrial applications, good chemical & mechanical resistance. High production capacity and energy conservation due to fast curing. | • | • | | | Polyester, smooth | Matt | 15 min/160°C, 10 min/170°C, 7 min/180°C, 5 min/190°C | |

Cleaning powder

Description Туре INFRALIT EP/PE 8081-98

Cleaning powder, for recycling in the system before challenging colour changes
Based on a mixture of solid epoxy and polyester binders, designed only for cleaning of powder coating painting lines.

Hybrid

Powder is blown through hoses, venturis, painting booths, cyclones and other parts of painting lines. When the cleaning powder goes through the system it releases and gathers excess powder coating and other impurities. Fast availability: Stock item ID BE40400020 (Cleaning powder)

PACKAGE SIZE

Standard package size/filling for all INFRALIT-powder coatings is 20 kg. Exceptions are metallic shades and clear coats which are packed in same size of boxes but with 15kg filling. Larger package sizes by agreement.





STORAGE AND HANDLING INSTRUCTIONS

for INFRALIT powder coatings

STORING AND TRANSPORTATION

- Powders should be stored in cool and dry environment, max 25 °C. Take special care during high temperature seasons. Avoid storing close to heat sources i.e. heaters in trucks and storages. Do not store in direct sunlight.
- Take special care with low cure powders (highly reactive products) to be stored in a cool environment.
- Excess heat can cause sintering in the powder, leading to spraying problems and surface defects on the final coating. Do not load or store big product bags on top of each other.

HANDLING

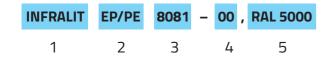
- The recommended (air) humidity during storage and handling of powder coatings is 40-60%.
- The maximum recommended amount of recycled non-metallic powder coating to be mixed with fresh powder is 50%. If the spraying result seems inadequate, more fresh powder should be added. The optimum amount depends on used equipment and powder.
- Be careful when handling powders. The powder dust shouldn't contaminate production and the powder itself should not be contaminated by foreign materials or other powders. Close the container/bag between uses to ensure this.
- Use personal protection, notice the labelling and follow the safe use instructions mentioned in the SDS.
- Powder that has been stored for a long time will be more packed compared to fresh powder because air between
 the powder particles escapes. Either use a fluidisation vessel to incorporate air into the powder or mix the bag manually
 to ensure nice fluidisation.
- Observe and follow the best before date on the label. The quality of the powder cannot be guaranteed if it is used after the best before date.

CLEANING OF SPRAYING EQUIPMENT

- Cleaning the spraying booth is recommended at least once during a work shift, depending on the temperature and humidity to avoid the moistened powder in the booth walls dropping on its own and causing lumps in the recycled and fresh materials mixing.
- Teknos product BE40400020 INFRALIT EP/PE 8081-98 CLEANING POWDER can be used for cleaning spraying guns and recycling equipment.

INFRALIT POWDER COATINGS NAMING

The INFRALIT powder coating name is composed of the following:

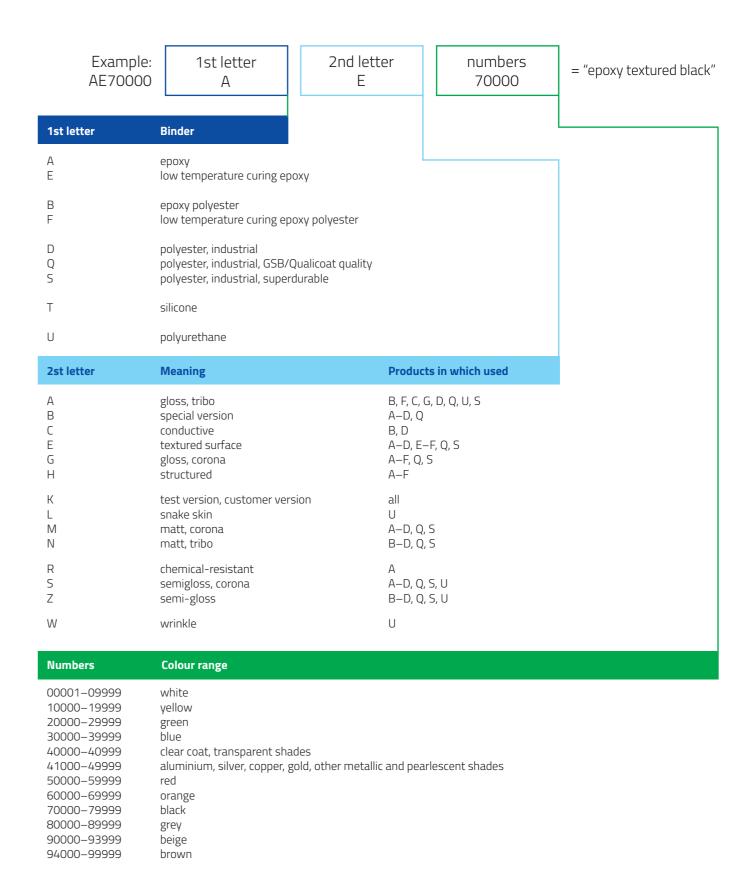


- 1. INFRALIT = brand name for Teknos powder coating
- 2. Resin type; EP = epoxy, EP/PE = epoxy-polyester, PE = polyester, | JR = polyurethane, SI = silicone
- 3. A four-digit number, which together with the variant number forms the complete number series for the product
- 4. A two-digit variant number

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5. Colour; either a code from a standard colour card, a customer's own code, or text information.

INFRALIT POWDER COATINGS KEY TO ITEM NUMBERS



NB! Key to item numbers is only indicative, exceptions are possible.

WE MAKE THE WORLD LAST LONGER

Teknos is a global coatings company with operations in more than 20 countries in Europe, Asia, and the USA. Teknos is one of the leading suppliers of industrial coatings with a strong position in retail and architectural coatings.

Teknos wants to make the world last longer by providing smart, technically advanced paint and coating solutions to protect and prolong.

Teknos always works in close cooperation with its customers.

The company was established in 1948, and is one of Finland's largest family-owned businesses.

For further information, visit www.teknos.com

