



# INFRALIT EP 8074

## Epoxy Powder

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<b>PAINT TYPE</b>	INFRALIT EP 8074 is a finely pulverized powder coating based on epoxy resin. At elevated temperatures the powder will melt, cure and form the final paint film.
<b>USAGE</b>	INFRALIT EP 8074 Epoxy Powder is used for demanding product coatings primarily within the heavy metal industry.
<b>SPECIAL PROPERTIES</b>	<p>INFRALIT EP 8074 Epoxy Powder forms a film with very high glass transition point. Withstands heavy abrasion as well as oils and grease.</p> <p>EP 8074-00 has a glass transition point of the cured film of 130±5 °C. EP 8074-20 has a glass transition point of the cured film of 140±5 °C. EP 8074-30 has a glass transition point of the cured film of 150±5 °C. EP 8074-40 has a glass transition point of the cured film of 160±5 °C.</p>

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**TECHNICAL DATA**

<b>Colours</b>	Grey
<b>Gloss grades</b>	Gloss
<b>Gel time at 205 °C</b>	25 - 30 s (CSA hot plate)
<b>Solids</b>	100%
<b>Specific gravity</b>	Abt. 1,5 kg/dm <sup>3</sup>
<b>Spreading rate</b>	3 - 11 m <sup>2</sup> /kg depending on the film thickness
<b>Film thickness</b>	200 - 400 µm
<b>Packages</b>	20 kg
<b>Storage</b>	In dry and cool conditions 6 - 12 months depending on the temperature (5 - 25°C).

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**SAFETY PRECAUTIONS**

The powder itself is non-flammable, but with air it can form an explosive mixture that in presence of adequate ignition energy ignites. The lower explosive limit for epoxy powder is about 60 g/m<sup>3</sup> (Bundesanstalt für Materialprüfung). Ventilation of the spray booth should be adjusted so that the concentration of powder in the air is less than 50% of the lower explosive limit value. On calculation of the powder concentration in the spray booth, the powder deposited on the workpiece is not taken into account.

In order to avoid the discharge of powder from the booth into adjacent working spaces, the speed of air flow in the apertures of the booth must not fall below 0.5 m/s.

Spray painters should wear dust masks and protective gloves. Any spatter of powder on the skin should be washed off with water and soap.

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**DIRECTION FOR USE****Surface preparation and application**

**COLD-ROLLED SURFACES:** Degrease by trichloroethylene vapour bath or alkali wash. Application by electrostatic spraying to a film thickness of 80 - 150 µm.

**HOT-ROLLED SURFACES AND CASTINGS:** Remove grease and dirt. Blast-clean at least to grade Sa 2½ (ISO 8501-1). The surface profile must be at least ISO 8503-2 medium (G). Remove the dust. Preheat the blast-cleaned workpieces before application. Maximal temperature during preheating is +240°C, recommended surface temperature at application is +190 - 200°C.

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The information of this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos data sheets, material safety data sheets and system sheets are on our home pages [www.teknos.com](http://www.teknos.com).

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