

**1 DESCRIPTION**

An HYBRID (**EPOXY/POLYESTER**) thermosetting powder coating TGIC free. A primer specially designed for steel corrosion protection in two layers systems through barrier effect.

71P02 Govesan SuperPrim RPSP comply with **QUALISTEELCOAT** requirements for **C5-H** corrosivity for high durability (15-25 years), using as top coat all CIN QUALICOAT licences when the steel has a hot dip galvanized or thermal spray metallization.

**Benefits:**

- According to ISO 9.227 “Corrosion test in artificial atmospheres. Salt spray test” it achieves more than 1440 hours (corrosivity category C5-H) at neutral salt spray (NSS) corrosion resistance at the scribe mark.
- High chemical, mechanical and abrasion resistance.
- No blistering or delamination
- Extremely good corrosion resistance at the edges and weldings
- High adhesion to steel or aluminium substrates
- Good degassing behaviour.

**2 APPROVALS**

According to ISO 12.944-2 “Corrosion protection of steel structures by protective paint systems. Classification of environments” the corrosivity categories are:

- C1: Very low corrosivity
- C2: Low corrosivity
- C3: Medium corrosivity
- C4: High corrosivity
- C5: Very high corrosivity

**QUALISTEELCOAT (QSC)** is the quality label for powder coatings, paint and lacquer for steel corrosion protection

Licence Number	Base Material	Number of layers	QSC	Category	Top coat
<b>PE-0133</b>	Hot-dip galvanized steel *	2	HD2	C5-H	All Qualicoat approved topcoats of CIN (Govesan RW / RD)
<b>PE-0114</b>	Steel coated by thermal spraying **	2	MS2	C5-H	All Qualicoat approved topcoats of CIN (Govesan RW / RD)

(\* Steel + Hot Dip Galvanized + Degreasing + Etching + Conversion treatment)

(\*\* Steel + SA3 + Thermal Spray)

We recommend that the technical data sheet is periodically checked to ensure that it is the most recent version. CIN guarantees that its products conform to the specifications as detailed in the respective technical data sheets. CIN cannot under any circumstances be held responsible for the consequences of technical information given prior to or after purchase of products. This is merely of an advisory nature, given in good faith and to the best of its knowledge, and based on current technical know-how. Claims can only be accepted for products which have manufacturing defects or which do not conform to the purchase order. CIN will, at its discretion, either replace the defective goods or reimburse the customer. CIN cannot accept responsibility for any other loss or damage. All sales are subject to our general terms and conditions of sales that we advise should be read carefully.

**3 PROPERTIES**

<b>Gloss (60°) (EN ISO 2813)</b>	60-70 GU *
<b>Density (g/cc) :</b>	1,5 to 1,7
<b>Particle size (EN ISO 13320)</b>	Average diameter 45-55 µm
<b>Coverage</b>	10 to 12 m <sup>2</sup> /kg at 60 µm
<b>Minimum Thickness</b>	60 µm
<b>Type of application</b>	Corona / Tribo
<b>VOC</b>	0,00-0,29% (Percentage by weight)
<b>Curing cycle</b>	12' - 15' / 180 °C
<b>Storage Stability</b>	12 months in a sealed bag when stored in a dry place, preferably at temperatures below 30°C.

**Product recommendations:**

- Complete curing is needed to obtain an optimal corrosion resistance.
- Primer RPSP thickness of 60-80 µm is required. Top coat RW / RD thickness of 60-80 is recommended.
- RPSP primer is recommended for indoor and outdoor application under the top coat.
- The RPSP primer is available in two colours, dark grey and light grey to choose depending on the colour of the top coat used.
- It is recommended to apply the primer within the 12 hours after substrate preparation.
- Two layers systems provide better corrosion resistance at the edges and weldings compare to single coat systems.

(\*) Within this series of products there can be gloss level variations of up to 5 G.U. from that specified. This is normal and does not affect the final product quality.

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**4 TESTS**

**Tests conditions:** All tests are carried out under laboratory conditions cured 15 minutes at 180°C.

Mechanical Resistance		
Properties	Tests	Results
Adhesion (EN ISO 2409)	Scotch tape 1 mm square	0 (>5 Mpa)
Direct Impact test ( ISO 6272-1)	1 kg at 40 cm	No cracking, No Detachment
Corrosion Resistance		
Neutral Salt Spray (ISO 9227)	No blistering, flaking, rusting or cracking at 1440 hours.	
Resistance to continuous condensation (EN ISO 6270)	No blistering, flaking, rusting or cracking at 720 hours.	
Chemical resistance (ISO 2812-1)	No blistering, flaking, rusting or cracking at 168 hours.	
Resistance to humid atmospheres containing sulphur dioxide (ISO 3231)	No blistering, flaking, rusting or cracking at 720 hours.	

**5 HEALTH, SAFETY AND THE ENVIRONMENT**

It is important to read the label on the container and the product MATERIAL SAFETY DATA SHEET (MSDS).