

### RELEST® Protect 352 PUR-Guard

Art.-Nr. I352-0001/-0004/-0005

#### Properties:

<b>Type of binder</b>	Polyurethane elastomer	
<b>Mixing ratio</b>	According to weight: 100 : 130 According to volume: 100 : 124	
<b>Hardener</b>	RELEST® Hardener PUR 2	
<b>Viscosity (at +25°C)</b>	Base:	approx. 1600 - 2100 mPas
	Hardener:	approx. 2500 - 4000 mPas
<b>Colour shades</b>	-0004 grey -0005 blue	
<b>Density ISO 2811-1</b>	Base:	approx. 1.04 g/cm <sup>3</sup>
	Hardener:	approx. 1.09 g/cm <sup>3</sup>
	Mixture:	approx. 0.90 g/cm <sup>3</sup> (sprayed film)
<b>Solid content (mixture)</b>	Volume:	approx. 100 %
	Weight:	approx. 100 %
<b>Workable life</b>	Approx. 10 - 15 s	
<b>Gloss level</b>	Gloss	
<b>VOC content (mixture)</b>	< 0.5 g/l	
<b>Spreading rate (theoretical)</b>	At a recommended dry film thickness of 1000 µm on even surfaces theoretical: approx.: 0.9 kg/m <sup>2</sup> corresponds to approx.: 1.0 m <sup>2</sup> /kg (The sprayed film contains air inclusions.) Non-binding reference value since surfaces and their consumption rates vary. Carry out a test application according to DIN 53220 to assess the exact spreading rate.	

The technical data refer to +20°C and 65 % relative air humidity.

#### Characteristics and resistance:

RELEST® Protect 352 PUR-Guard is a flexible, solvent-free, two-component liquid plastic compound for highly abrasion-resistant coatings in wear protection applications. The accelerated material must be applied by means of a 2-comp spray unit. The coating is highly abrasion resistant and resistant to mechanical stress and can be applied in thick layers as it is solvent-free. The surface is glossy and smooth. Chalking and changes in colour

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occur after a relatively short period of time if exposed to weathering; this has no impact on the coating's durability though.

Characteristic parameters of the cured, sprayed RELEST® Protect 352 PUR-Guard film	Elongation at break	DIN 53504	approx. 400 %
	Tear propagation strength	DIN 53515	approx. 24 KN/m
	Hardness	DIN 53505	approx. 85 Shore A
	Abrasion	DIN 53516	approx. 120 mm <sup>3</sup>
	Impact resilience	DIN 53512	approx. 35 %
	Tear strength	DIN 53504	approx. 15 MPa

#### Substrate preparation:

##### General:

The surface preparation is decisive for the durability of all coating systems. Surfaces must be solid, clean, free of grease, wax, silicone, rust and dust and must be provided with a sound and suitable anticorrosive priming coat of sufficient film thickness. Remove non-solid old coatings in poor condition. Clean, sand and remove dust from solid old coatings in good condition and check their compatibility.

##### Steel:

Surfaces must be clean, dry, solid, free of mill scale and other foreign matter. Best results are obtained by jet blasting according to standard degree of cleanliness Sa 2½ or DIN ISO 12944-4. Prime substrates immediately after the pretreatment in order to avoid surface rust and to improve adhesion.

##### Aluminium and galvanised steel:

Surfaces must be dry, clean, solid and free of oil, grease and other foreign matters, best way would be to sweep blasting the substrates and must be primed.

##### Application:

(All data are exemplary.)

<b>Application conditions</b>	+10 °C min. to + 45 °C max. at a max. air humidity of 85 %. Observe dew point.		
<b>Overcoating times</b>	Climate +20°C	minimum after not applicable	maximum after 60 min.

RELEST® Protect 352 PUR-Guard, Art. No. I352-0004 /-0005 can be applied at any desired film thickness. Multilayer coating systems must be applied within 60 min. After 60 min., the RELEST® Protect 352 PUR-Guard surfaces to be overcoated, e.g. in case of repair work or overlaps, must be pretreated with RELEST® Protect 367

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2K-PUR-Surfacer colourless, Art. No. I367-0003, + 30 % acetone. Consumption: approx. 80 – 100 g/m<sup>2</sup>. Drying time: 2 – 6 hours. If RELEST<sup>®</sup> Protect 352 PUR-Guard is applied at temperatures below +8° C, adhesion to the pre-primed surfaces may be affected. Observe dew point.

#### Application method:

The components must be mixed mechanically due to the product's high reactivity. The material must be applied by means of a special 2-comp. spraying machine.

#### Special remarks:

Please stir well before application to receive a homogeneity in the colour shade. We recommend a special rotary stirrer for the base component during the application. Both components are moisture-sensitive. This is why opened containers must be resealed thoroughly. Working tanks must be ventilated via drying filters (silica gel or calcium chloride).

The material must not be heated to over +50° C. PUR-Härter 2, Art. No. I385-0002, reacts even with traces of humidity and forms gel-like to solid elastomer particles which may lead to clogging of the metering units and result in coating defects. Sufficient and systematic air extraction at the workplace must be provided. The air movement should be directed away from the staff.

This is all the more important when heating the material to over +40°C and when working at high temperatures due to the risk of exceeding the MAC values.

#### Drying times:

Drying times (ISO 9117)	Accessible to pedestrians:	Cured
Air drying:	approx. 15 min.	approx. 1 d

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#### Standard coating systems:

The coating system depends on the nature of the surface and the stress level it will be exposed to.

Primer: steel	1 x RELEST® Protect 367 2K-PUR-Surfacer colourless, Art. No. I367-0773, + 30 % acetone. Consumption: approx. 80 - 100 g/m <sup>2</sup> Overcoat with RELEST® Protect 352 PUR-Guard after 2 - 6 h depending on temperature and air movement. If anticorrosive protection is required, apply 2 x RELEST® Protect 323 2K-EP-Primer redbrown, Art. No. I323-colour 1 x RELEST® Protect 367 2K-PUR-Surfacer colourless, Art. No. I367-0773, + 30 % acetone.
Primer: aluminium and zinc	1 x RELEST® Protect 367 2K-PUR-Surfacer colourless, Art. No. I367-0773, + 30 % acetone. Consumption: approx. 80 - 100 g/m <sup>2</sup> , corresponds to approx. 10 µm/m <sup>2</sup> . Overcoat with RELEST® Protect 352 PUR-Guard after 2 - 6 hours, depending on temperature and air movement.

#### Storage/Transport conditions:

Store the material in firmly closed original containers. Please observe the information on the container label. Seal open containers airtight and use up soon.  
Protect from frost, heat and humidity.

#### Safety measures:

The information and safety advice on the containers as well as the respective accident prevention regulations of the responsible trade associations are to be observed at all times when working with this product. For further information, please see the Safety Data Sheets.