

**DESCRIPTION**

Cingard® Primer FD is a fast dry primer for concrete surfaces. Its main properties are:

- Fast drying
- Recoatable on the same day
- High capacity to stabilize substrates and enhance adhesion of subsequently coatings
- Could be used for oil contaminated surfaces <sup>a)</sup>
- Product with CE marking

**MAIN APPLICATIONS**

Excellent sealer for new and old concrete when it will be necessary to apply a topcoat on the same day. Could be used prior to the application of polyurea membranes, self-levelling epoxy screeds, epoxy and polyurethane solvent base coatings.

**PROPERTIES**

<b>Finish</b>	Gloss		
<b>Colour</b>	Red oxide		
<b>Components</b>	2		
<b>Mixing ratio (by weight)</b>	Resin	7P-921	3 parts
	Cure	7P-922	1 part
<b>Pot life of the mixture</b>	30 minutes at 23 °C and 50 % RH Since the pot-life is limited at high temperatures and high humidity, do not mix more material than will be used in pot-life period. Otherwise, it must be careful to place the reaction product outdoors or in well ventilated areas.		
<b>Volume solids</b>	95 % (ISO 3233) Variations of ± 3 % are acceptable due to the imprecision of the method		
<b>Specific gravity</b>	1,318 g/ml		
<b>Recommended dry film thickness</b>	100 – 500 µm It depends on surface profile, porosity and application method. Rough, porous or high absorbent surfaces will require additional primer		
<b>Theoretical coverage</b>	See recommended paint systems Allow for application losses, surface irregularities, etc.		
<b>Drying time</b>	At 23 °C and 0,20 kg/ m <sup>2</sup> Dry-hard: 3 hours <sup>b)</sup> Recoating: Minimum 3 hours Maximum 16 hours <sup>c)</sup> Drying times depend on air temperature, surface temperature, humidity and ventilation. If case of exceeding the maximum recoating time, it will be necessary to make a mechanical abrasion of the surface to guarantee a good adhesion between layers.		

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**SURFACE PREPARATION**

Concrete must be left for at least 28 days so as to be fully cured. Remove the laitance, old paint and any other contaminants by grit blasting. The minimum tensile strength of the concrete must be greater than 1,5 N/mm<sup>2</sup> and the compressive strength must be higher than 25 N/mm<sup>2</sup>. The product must not be applied on concrete surfaces subject to negative water pressures. Apply over clean surfaces with sufficient rugosity, achieved by grit blasting (CSP 3 or CSP 5, ICRI guide n.<sup>o</sup> 310.2R-2013) or diamond discs (CSP 2, ICRI guide n.<sup>o</sup> 310.2R-2013).

**APPLICATION AND PAINT SYSTEMS**

Prior mixing stir the Resin component, then add the Cure component to the Resin and stir for 5 minutes with power mixer at low revolutions. In confined areas ventilate with clean air during application and drying.

**Ambient application conditions:**

Air temperature	10 – 35 °C
Relative humidity	50 – 85 %
Minimum surface temperature	3 °C above dew point at a minimum temperature of 10 °C
Concrete depth humidity	less than 4 % under ASTM F2659 (with "Tramex" equipment or similar)

**Application methods:**

Toothed spatula, brush, roller, rubber spatula and airless gun

**Airless Gun:**

Fluid tip orifice size	0,015 - 0,020 inches (0,38 – 0,50 mm)
Fluid pressure	198 - 230 kg/cm <sup>2</sup>

**Cleaner thinner:**

52-510.0000 (Dil. Industrial)

**As a primer for polyurea system:**

Apply the primer in order to obtain a consumption rate of 0,15 to 0,80 kg/m<sup>2</sup>/coat. Due to the grade of absorption of the substrate and its porosity, it may be necessary to apply more coats or layers to completely seal the support. In very porous and uneven substrates, it is recommended to apply first a thin mortar for levelling the surface.

When necessary to provide resistance to osmotic pressure, should be applied the Cromodrol Sealer or the Waterproof Mortar. The Cromodrol Sealer could be used up to 0,2 MPa of osmotic pressure (minimum consumption of 400 g/m<sup>2</sup>). Depending on surface regularity may be necessary to apply two layers of sealer. The Waterproof Mortar could be used up to 0,5 MPa of osmotic pressure (minimum consumption of 4 kg/m<sup>2</sup> in two layers). Before applying Cingard EP500, these mortars should be previously sealed with Cingard Primer FD.

**As a fine mortar (applied by spatula):**

Mix 1 part by weight of Cingard Primer FD with 0,5 - 0,6 parts of a mix of Quartz G300 and Quartz Powder G50 (1/1)<sup>d)</sup>. The sealer and silica weight relation depends on the roughness of surface. The applicator should decide which will be the most appropriate proportions to ensure a complete sealing of the support. It may be necessary to apply an additional coat of Cingard Primer FD.

Consumption rate: 0,3 – 1 kg/m<sup>2</sup> (depends on surface irregularities and trowel type)

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## ADDITIONAL INFORMATION

**Drying mechanism – By chemical reaction between components****Volatile Organic Compounds (VOC)**

UE limit for the product (cat. A/j): 500 g/L

Maximum VOC content:

Resin less than 44 g/L

Cure less than 4 g/L

Cleaning Thinner less than 864 g/L

Mixt: less than 32 g/L \*

\* The VOC value shown above refers to a ready to use product, as tinted, thinned, etc, in accordance with our recommendations. We are not responsible for products obtained by mixing products with are different from those we have recommended and we must draw attention to the responsibility of anyone involved within the supply chain not to infringe Directive 2004/12/CE.

**Flashpoint (EN 456)**

Resin higher than 100 °C

Cure 193 °C

Cleaning Thinner less than 0 °C

**Supply form**

Resin 6,0 kg

Cure 2,0 kg

**Shelf life**

Resin 2 years, when stored in original containers, indoors, between 5 and 40 °C.

Cure <sup>e)</sup>: 2 years, when stored in original containers, indoors, between 5 and 40 °C.**CE MARKING**

CE Marking <sup>f)</sup> of this product is the evidence given by CIN that this product is subject to the provisions of Community Directives of the Construction Products that are applicable (European Regulation nº305/2011 and the European Standard EN 1504-2. "Products and Systems for the protection and repair of concrete structures. Principle 5. Physical resistance / Surface improvement. This product complies the requirements of Annex ZA of EN1504-2 standard.

	
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EN 1504-2	
Declaration of performance: CE-7P920	
Products for the superficial protection	
Physical resistance	
Abrasion resistant	< 2 g
Impact resistance	≥ 10 Nm (Class II)
Water permeability	w < 0,1 kg/( m <sup>2</sup> h <sup>0,5</sup> )
Bond Strength	> 2,0 N/mm <sup>2</sup>
Dangerous substances	Complies with a 5.3 clause of EN 1504-2 Norm.

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**NOTES**

- a) The surface must be free from laitance, oils, grease or other contaminants. Where there are superficial contaminations, mechanical preparation with diamond discs must be carried out, followed by an immediate application of Cingard® Primer FD. Where there is in depth contamination, various techniques can be used: cleaning machines with high pressure with hot water or steam and caustic soda or other alkaline degreasers recommended for these cleaning techniques; shot blasting the floor, followed by an immediate application of Cingard Primer FD. Residual contamination must be burnt off (HCA cleaning), followed by an immediate application of Cingard Primer FD.
- b) In case there is relative humidity lower than recommended, drying is negatively affected. In these cases it is suggested to spray water in order to speed drying. The recoating can be done only after full evaporation of water.
- c) If the recoating time is exceeded, it is recommended a complete sanding of the surface, followed by aspiration and cleaning of dust.
- d) To make the mixture of the 3 components and obtain a proper homogenization, should be used a mixer with motor compressed air or electric explosion-proof device. After homogenizing the resin and cure, join the silica and stir for 5 minutes until obtain a homogeneous product. At the end, wash the equipment with cleaning thinner.
- e) The cure compound of this product is based on diisocyanates that react with moisture in the air, by the fact the packaging should remain open as short a time as possible and be sealed after use so as not to harden. Even taking this care the product stability may be affected and will always be less than the product in an unopened packaging.
- f) The CE Marking was made in conjunction with the finish Cingard EP500

**HEALTH, SAFETY AND THE ENVIRONMENT**

Protect the eyes and skin from contact; gloves, goggles and appropriate clothing should be worn. Keep out of the reach of children. Use only in well ventilated areas. Do not empty into drains. Keep the container properly sealed and stored in the correct place. Take correct measures when transporting the product so as to avoid any accidents that could rupture the can or cause damage to the packaging. Ensure that the container is correctly stacked in a safe area. Do not store or use the product in extreme temperature conditions. Always take account of the appropriate legislation relating to the environment and Health and Safety at Work. For more information it is essential to read the label on the container and the Material Safety Data Sheet of this product, its components and all complementary products referred on Technical Data Sheet.

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