PRODUCT DATA SHEET

RIPLAST R3 R4

Polyurethane enamel

CHARACTERISTICS

Enamel gloss suitable for the painting systems of various structures, water-impermeable, easy to apply, ideal for professional use as it is extremely compatible and has excellent adhesion properties, filling and covering powers on various types of substrate. It guarantees an extremely uniform finish with extraordinary resistance to atmospheric agents and mechanical stress, elements indispensable for the duration of the applications, and useful for protecting the structure over time.

Thanks to its high quality, effective aesthetic and technical solutions can be obtained for various painting requirements offering excellent finishing results with maximum protection and colour resistance in exterior environments, even in severe exposure conditions. The properties of this film which include elasticity, scratch resistance and wear resistance, ensure that it maintains its appearance while remaining stable and also able to withstand the stress created by the dimensional variations of the substrate in response to the varying of climatic conditions as well as attacks from the chemical elements contained in drinks and commercial detergents.It is a two-component polyurethane film formulated with photostable colouring pigments, polyester resins and aliphatic polyisocyanates in the solvent phase; the dried film does not yellow, is resistant to UV rays and impermeable to water, and therefore guarantees high protection in conditions of extreme exposure to atmospheric agents and sunlight. it is suitable for painting systems designed for both interior and exterior structures.

Its good coverage, low tendency to run and rapid drying properties mean that it can be applied with professional tools which guarantee a finish characterized by visual consistency, uniform thickness and good coating of the corners as well as rapid painting times. To improve its resistance to abrasion, use the texturized version, which can be obtained by adding up to 20% by weight of *texturizing paste* to *Riplast R3*.

PROPERTY OF THE PRODUCT

	Value	Method
COLOUR RESISTANCE	EXCELLENT	
RESISTANCE TO ATMOSPHERIC AGENTS	EXCELLENT	
COVERING CAPACITY	GOOD	
IMPACT AND SCRATCH RESISTANCE	EXCELLENT	
RESISTANCE TO OIL AND FUELS	EXCELLENT	
DRY RESIDUAL IN WEIGHT	Riplast R3 63-67% Riplast R4 44-48%	Internal PF25
DRYING	Recoatable wet-on-wet 2-3h, Dry to recoat 12-16h; Fully dry 5 days	
SURFACE APPEARANCE	Smooth Glossy	

COLOURS

White. The range of colours can be extended using the *RAL K7* sample book with the *Color Plus a* system. The colour could vary slightly from one production batch to the next; it is therefore important to finish the job with the same batch

TECHNICAL DATA

	Value	Method
Specific weight	*Riplast R3*: 950-1300 g/l *Riplast R4*: 950-1050 g/l	interior PF3

	Gloss	85-95	interior P6
	Pot-life	Minimum 3h	interior P7

STORAGE

The product should be stored in its original containers at temperatures of between +5°C and +30°C.

HOW TO USE

USE

It is ideal for decorating and protecting, from atmospheric agents in rural, marine or industrial environments, new structures or structures undergoing maintenance, e.g. industrial machinery, fixtures, doors and windows, railings, garden furniture, tanks, boats with appropriately pre-treated surfaces made of iron, galvanized iron, aluminium, alloys, plastic and various types of wood. Strong colours may also be used. The thickness recommended for effective protection is established on the basis of the aggressiveness of the environment and the product should always be applied on a scrupulously clean substrate. In order to guarantee good adhesion between coats without having to sandpaper the underlying coat, recoating must take place within 2-3 hours using the wet-on-wet technique. During the application ensure that the required thickness is also guaranteed on corners as these are the parts of the structure most difficult to protect. The real temperature during application must be at least 3°C above dew point and the relative humidity of the air must not exceed >65%. It is important to remember that the drying times of polyurethane products vary considerably with each 5°C change in temperature.

TOOLS

Spray-gun, Brush, Roller.

MIXING PROPORTIONS

100 *Riplast R3* / 50 *Riplast R4* (by weight).
100 *Riplast R3* / 60 *Riplast R4* (by volume).

THINNING

Up to 10% by weight with *Nitro NV 5000*
In conditions that are unfavourable due to high humidity or temperature, use *Butol*.

COVERAGE

Cycles on iron: 5.9-6.5 sq.m/kg per 70 dry μm
Cycles on galvanized iron, aluminium, alloys: 8.4-9.0 sq.m/kg per 50 dry μm
Cycles on wood: 3-4 sq.m/kg

APPLICATION TEMPERATURE

+5°C +30°C

PAINTING SYSTEM

The treatment of the surface to be coated is of primary importance and affects the performance of the coating cycle.
A good and correct preparation of the substrate is a guarantee of quality on the duration of the coating: a high quality product applied on a poor substrate or on substrate inadequately treated is destined to an early wear, characterized by possible alteration of the coating itself.

New structure in rural and urban surroundings

1. Preparing the surface: manual or mechanical cleaning and washing, plus

treatment with converter, if required, or with commercial sandblasting to Sa 2.
2. After sandblasting, apply *Primer 40* wet-on-wet at a thickness of 70 dry μm.
3. After 45-60 minutes apply *Riplast R3-R4* wet-on-wet at a thickness of 70 dry μm.

Maintenance of an old rusty structure
1A. Remove any flaking paint and rust with scrapers, brushes or abrasive paper.
2A. Wash the surface and treat it with a converter or with sandblasting to SA2.
3A. Proceed as per points 2 and 3.

For effective protection in marine and light industry environments, apply 100 dry μm of rust inhibitor +70 dry μm of enamel.
For effective protection in heavy industrial environments, apply 130 dry μm of Antiruggine rust inhibitor +70 dry μm of enamel.

Protection of structures in galvanized iron, aluminium, copper, alloys
1B. Preparing the surface: washing and degreasing with solvent or detergents.
2B. Apply *Primer 40* at a thickness of 50 μm.
3B. After 45-60 minutes apply *Riplast R3-R4* at a thickness of 50μm.

Maintenance
1C. Remove any flaking paint and rust with scrapers, brushes or abrasive paper, and sandpaper the whole surface.
2C. Apply a coat of *Primer 40* on the part in question.
3C. After 45-60 minutes apply *Riplast R3-R4* over the entire surface.

New structures made of various types of wood for external use
1D. Sandpaper the wood beforehand with 80 grit abrasive paper then with 150 grit abrasive paper.
2D. Apply a coat of *Riplast R3-R4* diluted 10% with *Butol* at a consumption rate of 130-160 g/sq.m.
3D. After 18-24 hours, sandpaper with 180-220 grit abrasive paper and apply a second coat of *Riplast R3-R4* diluted 10% with *Butol* at a consumption rate of 130-160 g/sq.m.

Maintenance of old structures made of various types of wood
1E. Sandpaper down to the wood and resume from point 2D.

New structures made of various types of wood for interior use
1F. Sandpaper the wood beforehand with 80 grit abrasive paper then with 150 grit abrasive paper.
2F. Apply a coat of *Riplast R100-R50* at a consumption rate of 160-200 g/sq.m.
3F. After 6-8 hours, sandpaper with 180-220 grit abrasive paper and apply a coat of *Riplast R3-R4* at a consumption rate of 130 -160 g/sq.m.

New structure in MD with surfaces treated with starched paper
1G. Sandpaper the substrate to be treated with 150 grit abrasive paper;
2G. Proceed as per point 2F and 3F.

SPECIFICATION ITEM

Two-component polyurethane enamel containing polyester and aliphatic polyisocyanate with good adhesion properties, as well as high resistance to impact and atmospheric agents. Ideal for decorating and protecting, from atmospheric agents in rural, marine or industrial environments, new structures and structures undergoing maintenance e.g. industrial machinery, fixtures, doors and windows, railings, garden furniture, tanks, boats with appropriately pre-treated surfaces made of iron, galvanized iron, aluminium, alloys, plastic and various types of wood, with an average consumption rate of 115 g/sq.m on iron, 110

g/sq.m on galvanized iron, aluminium, alloys and 290 g/sq.m on wood.

INSTRUCTIONS

To carry out the work in a workmanlike fashion, it is of fundamental importance to follow the instructions for the preparation of the surfaces contained in the CAP Arreghini Books, in the application cycle and in the product data sheet. This technical information is intended as a rough guide. Adapt the instructions to the specific conditions of use. The specification data and technical information have been calculated at +23°C with relative ambient humidity of 65%. In different conditions the data and the time intervals between one operation and the next vary. Our recommendations on the use of the product are based on accurate observations and research carried out by us. The experience gained in practice was also taken into consideration. However, because of the enormous variety of media and application conditions, it is essential to check the suitability of the product and its effectiveness by testing on the specific case.

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