



zandleven coatings

ZANDGUARD® NOVACURE HR

epoxy

A two components, polyamine curing phenolic primer/coating

- Good adherence on well pre-treated substrates
- Applicable in chemical and aggressive conditions
- Excellent resistant against a wide range of acids and solvents.
- When exposed to sunlight, discoloration and chalking can occur

Product information

Finish	Semi-gloss
Colour	Light grey and beige
Mass density	approx. 1.60 kg/L (mixed product)
Solids content by volume	approx. 70 volume % (mixed product)
VOC	approx. 290 gr./L (volatile organic compound)
Recommended film thickness	100 - 150 micron d.f.t. per layer 143 -214 micron w.f.t. per layer (undiluted)
Theoretical spreading rate	At 100 micron d.f.t. 7.0 m ² /L At 150 micron d.f.t. 4.7 m ² /L
Practical spreading rate	Depending on several factors like shape of object, profile of surface, method of application, application circumstances and experience. A few guiding principles are: Brush/roller :85-90% of the theoretical spreading rate Spraying :50-70% of the theoretical spreading rate
Flashpoint ISO 1523	Base 30°C Hardener 2V61 30°C Thinner FGM 631 26°C
Shelf life	At least 12 months, provided that it has been stored in closed original packing at a dry and cool spot.

Instructions in case of forced drying

- Option A: prior to forced drying, the coating has to be dried during 4 hours at room temperature, well ventilated. The next step is to warm the substrate, using heated air, during 4 hours. The substrate has to reach a temperature of 80°C.
- Option B: prior to forced drying, the coating has to be dried during 2 hours at room temperature, well ventilated. The next step is to warm the substrate, using warm air, during 10 hours. The substrate has to reach a temperature of 55°C.



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Drying times

For d.f.t. up to 200 µm

Dust dry

Walkable

Complete hardening for application under water

Recoat able:

Minimum interval

Maximum interval

30°C	20°C	10°C
2 hours	4 hours	8 hours
4 hours	8 hours	16 hours
3 days	5 days	10 days
7 hours	12 hours	24 hours
7 days	14 days	21 days

Film thickness, ventilation, temperature and relative humidity are of great influence on the drying times.

Application instructions

Mixing ratio

Volume: Base – hardener 2V61 81:19

Weight: Base – hardener 2V61 88:12

Mixing instructions

The components should be blended homogeneously with a mechanical blender.

Induction time

At 20°C not necessary

At 10°C at least 10 minutes

Pot life after mixing

20 litre packing: Approx. 4 hours at 10°C

Approx. 2 hour at 20°C

Application conditions

During application and hardening the temperature of the surface should be above 5°C, to obtain the optimal qualities.

Usage information

Type of thinner

Recommended thinner
(depending on application
and equipment)

Nozzle orifice

Nozzle pressure

Maximum attainable d.f.t.

Cleaning of tools

Airless-spray	Air-spray	Brush/roller
FGM 631	FGM 631	FGM 631
0 – 20 vol. %	0 – 20%	0 – 5 vol. %
0.48 – 0.63 mm 0.019 – 0.025 inch	2.0 – 2.5 mm	
170 – 200 bar		
250 micron	150 micron	100 micron
Thinner FGM 631		

Surface conditions

Steel

New steel:

Blast according to ISO standard 8501-1:1988 Sa 2½.

Roughness profile Ra 10-12 µm Rz 50-60 µm.

Surface should be clean and dry.

Repair and maintenance:

Clean the surface thoroughly with a suitable cleaning preparation or by steam cleaning.

Remove salts and other water-soluble impurity by spraying with clean tap-water under high pressure.

Remove rust a.o. by (water)blasting Sa 2½ or derust mechanical until St. 2-3. Apply the recommended paint system on a clean surface.

- Mechanical or hand derusting gives less quality than (water)blasting and will result in less protection of the applied paint system.

Stainless steel

Sweep blasting with a fine, non-metallic blasting medium until a uniform roughened surface has been obtained, or degrease followed by a chemical pre-treatment

In accordance with the manufacturer's instructions



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Product Characteristics

No application shall be carried out when the temperature of the surface is less than 3°C above dewpoint.

Due to the presence of solvents, applying this product in confined spaces, adequate ventilation has to be ensured until the product is fully dried, at air temperature of 10 up to 40°C.

Do not apply the coating when the conditions are below 12°C, and these conditions are maintained for at least 48 hours. When during the drying process a kind of amine blushing occurs (sticky surface), the surface has to be cleaned thoroughly, using thinner FGM 631. The cleaned surface has to be dry prior to the application of the next layer.

Discoloration or loss of gloss or other surface defects, can occur during drying and curing by condensation and or early water spotting. In particular bright and "full" colours.

This coating product is based on epoxy technology. It is recommendable that it should be overcoated with a durable finish.

Maximum film build in one coat is best attained by airless spray. Application by other techniques, it may be necessary to apply multiple coats in order to achieve the total specified dry film thickness.

Safety description

See safety data sheet

Ventilation rules

Minimum required quantity of air to comply with:

	MAC	10 % LEL
Zandguard Novacure HR	662 m³/L	36 m³/L
Thinner FGM 631	3995 m³/L	160 m³/L

MAC = Maximum Acceptable Concentration

LEL = Lower Explosion Limit

Also consult the security information sheets

Pretreatment / Labeling / Technical Terms (downloadable from www.zandleven.com)

- A 1 Labeling of paint products in the European Community
- A 2 Physical data
- A 4 General guidelines for steelpreservation
- A 6 Pretreatment of construction steel
 - material safety data sheet
 - information hardeners and thinners
 - surcharge colour category
 - sales & delivery condition

These data have been drawn up to the best of our knowledge and were correct at the date of issue. However we cannot accept full responsibility, because de choice of products and circumstances during elaboration of the systems fall outside our judgement. This documentation sheet will not automatically be replaced in case of modification. The English language text is a translation. In case of doubt the Dutch language original text has to be consulted as the authoritative text.

