

Technical data sheet PROTECT 360 Anti-corrosion epoxy primer

PROPERTIES

PROTECT 360 EPOXY PRIMER – an anti-corrosion primer that provides excellent protection of steel surfaces by high quality resins and active anti-corrosion additives. Intended for renovation of passenger vehicles, intensely operated trucks and buses/coaches. The product has a very good adhesion to various substrates and excellent insulation properties. It is directly coatable by topcoats. The primer can be used at the mixing ratio of 1+1 with the H 5950 hardener, or at 4+1 with the H 5960 hardener. When mixing with H 5950 at the ratio of 1+1, the wet on wet system can be used.

RELATED PRODUCTS					
H 5950	Epoxy primer hardener				
H 5960	Epoxy primer hardener				
THIN 860	Epoxy thinner.				
SUBSTRATES					
Steel	power tool) in accordance with must be free from oil, greas	Clean steel surfaces until reaching Sa 2 ¹ / ₂ (wet blasting) or St3 (manual cleaning or using a power tool) in accordance with the PN-ISO 12944-4 standard; the surface after the treatment must be free from oil, grease, dust, loose old paint coating, mill scale, rust and foreign contaminants; the surface should exhibit the gloss of the metal substrate.			
Old paint coatings	Degrease and dry sand with F	220 – P360 paper.			
Polyester putties	Dry sand, use P240 — P320 fo	Dry sand, use P240 — P320 for final sanding.			
Aluminium	Degrease, dry sand P280 ÷ P	Degrease, dry sand P280 ÷ P360 or mat with an abrasive finishing pad, degrease again.			
Galvanised steel	Degrease and mat with a fine abrasive finishing pad. Degrease again.				
Stainless steel	Degrease and mat with an abrasive finishing pad. Degrease again.				
Polyester laminates	Dry sand with P280, degrease again.				
MIXING RATIO	·				
		Volume ratio	Weight ratio		
	PROTECT 360 H 5950	1	100 56		
		Volume ratio	Weight ratio		
	PROTECT 360 H 5960 THIN 860	4 1 10 % (25 %; 50 %)	100 14.5 5.4 (13.5; 27)		
Apply the thinner in the amoun	t calculated for the primer.				



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Component A	Hardener	Mixing ratio	THIN 860	Viscosity DIN 4/20°C	Pneun	natic spraying		Airless spraying
PROTECT 360	H5950	1+1	None	18 — 20 s	pressu	1.2 — 1.5mm, ure: 3 — 4 bar se: 15 — 20 cm		zzle: Ø0.25 −0.35mm, ssure: 120 −160 bar, air jacket: 4 bar, nozzle angle: 50°
	H5960	4+1	10 %	70 — 80 s	pressu	2.2 — 2.5mm, ure: 3 — 4 bar ee: 15 — 20 cm		zzle: Ø0.25 – 0.35mm, essure: 120 – 160 bar, air jacket: 4 bar nozzle angle: 50°
	H5960	4+1	25 %	40 — 60 s	pressu	1.6 — 1.8mm, ure: 3 — 4 bar ee: 15 — 20 cm		zzle: \emptyset 0.25 $-$ 0.35mm, ressure: 70 $-$ 150 bar, air jacket: 3 bar nozzle angle: 50°
	H5960	4+1	50 %	25 — 30 s	pressu	1.3 — 1.5mm, ure: 3 — 4 bar ee: 15 — 20 cm		zzle: Ø0.25 –0.35mm, ssure: 70 – 150 bar, air jacket: 3 bar, nozzle angle: 50°
APPLICATION								<u> </u>
	Harde	ner	Mixing rat		nner N 860	Single dry la thickness		Recommended number of layers
**	H 59	50	1+1	no	one	25 – 35 μι	m	2-3
	H 59	60	4+1	10	0%	60 — 70 μι	m	2
	H 59	60	4+1	2	5%	40 — 50 μι	m	2
	H 59	60	4+1	50	0%	35 – 45 μι	m	2
	CAUTION: If be 80 μm.	the epoxy pr	imer is the c	only anti-corre	osion prim	er in the paint co	ating, it	s minimum thickness m
	The yield of t				for 1 for 4	+1 system: appro +1 system: appro	ox. 4.2 r ox. 6.9 r	m²/l at 80 μm m²/l at 80 μm
	Т	he actual yie	eld depends	on the surfa	ce shape,	roughness and a	pplicati	on parameters.
	Miz	Mixture life at 20° C 4 h						
(1/1/	Flash off tim	Flash off time between layers at 20° C 5 —10 min						
	DITIONS							



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CURING TI	MES
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20°C	60°C
12 h	45 min

CAUTION: The curing times apply to the temperatures of the individual elements.

IR DRYING



Distance Time depending on the type and power of the lamp Follow the recommendations of the equipment manufacturer

10 -20 min

CAUTION: Start IR heating no sooner than 10 mins after applying the last layer.

SANDING



Dry sanding

P360 - P500



Wet sanding

P600 - P1000

COATABILITY

Can be coated with all NOVOL acrylic primers and topcoats. Coatable with topcoats after 45 min at the primer layer thickness of 80 μm . The maximum time for coating without matting is 48 h.

TECHNICAL DATA

Product	Solids content by weight	Solids content by volume	Density
PROTECT 360	≈ 76 %	≈ 58 %	≈ 1.57 g/cm³
H5950	≈ 19%	≈ 17.5%	≈ 0.88 g/cm³
H5960	≈ 68%	≈ 65%	≈ 0.92 g/cm³
PROTECT 360 + H5950: 1+1	≈ 55%	≈ 38%	≈ 1.22 g/cm³
PROTECT 360 + H5960: 4+1	≈ 75%	≈ 59%	≈ 1.44 g/cm³

Spread: approx. 12.5µm

CONTENT OF VOLATILE ORGANIC COMPOUNDS

VOC II/B/c limit*

540 g/l

Actual VOC content

540 g/l (for 1+1)

* For ready to use mixture acc. to EU Directive

382 g/l (for the system of 4+1 + 10% THIN 860)

2004/42/CE

430 g/l (for the system of 4+1 + 25% THIN 860)

490 g/l (for the system of 4+1 + 50% THIN 860)

COLOUR

^{*} For ready to use mixture acc. to EU Directive 2004/42/CE



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Grey.

EQUIPMENT CLEANING

THIN 860 epoxy thinner.

STORAGE CONDITIONS

Store in a cool dry room, away from sources of fire and heat.

Avoid direct exposure to sunlight.

SHELF LIFE

PROTECT 360	24 months/20°C
H 5950	24 months/20°C
H 5960	24 months/20°C
THIN 860	24 months/20°C

SAFETY

See Safety Data Sheet.

NOTES

Use PROTECT 360 with the NOVOL H 5950 or H 5960 hardener only.

Use of other hardeners may reduce the anti-corrosion properties and the chemical and mechanical resistance of the filler.

OTHER INFORMATION

The effectiveness of our systems results from laboratory research and many years of experience. The data contained herein meets the current knowledge about our products and their application potential. We ensure high quality, provided the user follows the instructions and the work is performed in accordance with good workmanship. It is necessary to do a test application of the product due to its potentially different reaction with different materials. We may not be held liable for defects if the final result was affected by factors beyond our control.



ADDITIONAL INFORMATION

WEIGHT QUANTITY OF COMPONENTS:

PROTECT 360 + H5950; 1+1

CAUTION!

In order to obtain a primer with appropriate parameters it is very important to exactly dose the individual components.

Mixture quantity	PROTECT 360	H 5950
0.10	79 g	44 g
0.20	157 g	88 g
0.25	196 g	110 g
0.30	236 g	132 g
0.40	314 g	176 g
0.50	392 g	220 g
0.75	589 g	331 g
1.00	785 g	441 g

WEIGHT QUANTITY OF COMPONENTS: PROTECT 360 + H5960; 4+1+10%					
Mixture quantity	PROTECT 360	H 5960	THIN 860		
0.10 l	116 g	17 g	6 g		
0.20	233 g	34 g	13 g		
0.25 l	291 g	43 g	16 g		
0.30 I	349 g	51 g	19 g		
0.40 I	465 g	68 g	25 g		
0.50 l	582 g	85 g	32 g		
0.75 l	872 g	128 g	47 g		
1.00 l	1163 g	170 g	63 g		





WEIGHT QUANTITY OF COMPONENTS: PROTECT 360 + H5960; 4+1+25%					
Mixture quantity	PROTECT 360	H 5960	THIN 860		
0.10 l	105 g	15 g	14 g		
0.20	209 g	31 g	28 g		
0.25	262 g	39 g	36 g		
0.30 I	314 g	46 g	43 g		
0.40 l	419 g	62 g	57 g		
0.50 l	523 g	77 g	71 g		
0.75	785 g	115 g	106 g		
1.00 l	1047 g	154 g	142 g		

VEIGHT QUANTITY OF COMPONENTS: PROTECT 360 + H5960; 4+1+50%					
Mixture quantity	PROTECT 360	H 5960	THIN 860		
0.10	89 g	13 g	24 g		
0.20	179 g	26 g	49 g		
0.25	224 g	33 g	61 g		
0.30	269 g	40 g	73 g		
0.40	359 g	53 g	97 g		
0.50	449 g	66 g	122 g		
0.75	673 g	99 g	182 g		
1.00 l	897 g	132 g	243 g		