

REMOPLAST HS-KST (STANDARD, FAST, RAPID)

Two component high solid epoxy zincphosphate primer

Product properties

High build product
 Anticorrosion primer suitable for structural steel exposed to corrosive environments
 Excellent adhesion on blasted steel
 Excellent corrosion protection
 Low VOC product

Recommended uses

Used in environments with high corrosivity, providing long lasting protection.
 Used as a primer in atmospheric exposure conditions.
 For new construction, maintenance and repairs.

Product data

Colour	oxide red, grey, light grey
Volume solids with REMOPLAST HS-HÄRTER K.B	81 % ± 1
Volume solids with HS-FAST HÄRTER KOMP.B	80 % ± 1
Volume solids with REMOPLAST HS-RAPID HÄRTER	78 % ± 1
Spec. Gravity	1,45 g/cm ³
VOC with REMOPLAST HS-HÄRTER K.B	165 g/l According directive 2010/75/EU
VOC with HS-FAST HÄRTER KOMP.B	177 g/l According directive 2010/75/EU
VOC with REMOPLAST HS-RAPID HÄRTER	191 g/l According directive 2010/75/EU
Theoretical coverage with REMOPLAST HS-HÄRTER K.B	100 µm DFT 8,1 m ² /l 5,6 m ² /kg
Theoretical coverage with HS-FAST HÄRTER KOMP.B	100 µm DFT 8,0 m ² /l 5,5 m ² /kg
Theoretical coverage with REMOPLAST HS-RAPID HÄRTER	100 µm DFT 7,8 m ² /l 5,4 m ² /kg
Typical thickness with REMOPLAST HS-HÄRTER K.B	80 - 200 µm
Typical thickness with HS-FAST HÄRTER KOMP.B	80 - 200 µm
Typical thickness with REMOPLAST HS-RAPID HÄRTER	80 - 200 µm

Curing table for dry film thickness up to 100 µm	with REMOPLAST HS-HÄRTER K.B	
Substrate temperature	20 °C	15 °C
Dry to touch	5 hrs	18 hrs
Dry to handle	8 hrs	20 hrs
Overcoating, minimum	8 hrs	20 hrs
Overcoating, maximum	7 d	14 d

Curing table for dry film thickness up to 100 µm	with HS-FAST HÄRTER KOMP.B	
Substrate temperature	20 °C	10 °C
Dry to touch	4 hrs	10 hrs
Dry to handle	6 hrs	12 hrs

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Overcoating, minimum	6 hrs	12 hrs
Overcoating, maximum	7 d	14 d

Curing table for dry film thickness up to 100 µm	with REMOPLAST HS-RAPID HÄRTER	
Substrate temperature	20 °C	5 °C
Dry to touch	3 hrs	18 hrs
Dry to handle	4 hrs	20 hrs
Overcoating, minimum	4 hrs	20 hrs
Overcoating, maximum	7 d	14 d

Mixing ratio with REMOPLAST HS-HÄRTER K.B	5,7 : 1 by volume 9 : 1 by weight
Working pot life	20 °C 2 hrs

Mixing ratio with HS-FAST HÄRTER KOMP.B	4,3 : 1 by volume 7 : 1 by weight
Working pot life	20 °C 1,7 hrs

Mixing ratio with REMOPLAST HS-RAPID HÄRTER	3 : 1 by volume 5 : 1 by weight
Working pot life	20 °C 1,5 hrs

Thinner	VERDUENNUNG 400 TL/TP 687.150
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Recommended substrate preparation

All surfaces to be coated shall be clean, dry and free from any contamination. Before application of the paint, all steel surfaces shall be assessed and treated in accordance with ISO 8501 and ISO 8504. The coating must be applied to the specified thickness, as soon as possible after the surface is properly prepared. Weld spatter, sharp weld seams and sharp edges shall be removed.

Steel	Blast cleaning to Sa 2 ½ according to ISO 8501-1:2007. Roughness profile grade medium (G), according to ISO 8503-1:2012. Power tool cleaning to St 3 according to ISO 8501-1:2007.
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Preparing of mixture




Mixing	Agitate part A with power agitator. Add part B (hardener) in the specified amount according to the mixing ratio. Agitate thoroughly with power agitator until liquids are homogeneous mixed. Thinner shall be added after mixing or the two components.
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Application

DFT maximum 200. µm

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		Thinning	Nozzle	Pressure
	Airless	by weight up to 3 %	0,017 - 0,023 "	at least 180 bar
	Brush	For small areas and stripe coating Thinning: by weight up to 3 %		
	Roller	For small areas Thinning: by weight up to 3 %		

Apply only on a clean and dry surface with a temperature at least 3 °C above the dew point to avoid condensation.
 Substrate temperature during application and curing shall be above 5 °C.
 Relative humidity during application and curing shall not exceed 80 %.
 Thinner shall be added after mixing of the components.
 Do not thin more than allowed by local environmental legislation.
 Adequate ventilation shall be maintained during application and curing.
 Too much solvent results in a reduced sag resistance and slower cure.

Additional information

Following further information can be found on www.kansai-helios.eu

Kansai Helios technical guidelines

Remarks

The provided information should be considered only as a guidance. Drying and curing times are determined under controlled temperatures and relative humidity below 80% and at average of the DFT range for the product. The actual drying times before overcoating may be different, depending on film thickness, ventilation, humidity, underlying paint system etc. Excessive application will extend both the minimum overcoating periods and handling times and may affect long term overcoating properties. When the maximum recoating time is exceeded, it might be necessary to roughen the surface before overcoating. When in doubt, consult KANSAI HELIOS.

UV and colour stability	Like all epoxy coatings, this product tends to chalk and discolor on outside exposure (UV light).
Suitability and use	In combination with proper intermediate and/or topcoat, it is suitable for corrosivity category C1 to C5 according to ISO 12944.
Cleaning	Do not allow the paint to stay in hoses, gun or spray equipment. Clean all equipment with the prescribed cleaner immediately after use. Do not exceed pot life limitation!

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Recommended coating system

System compatibility

Intermediate Coat: REMOPLAST MSR ULTRA-IC

Topcoat: REMOPLAST UVC GLIMMER
REMOPLAST UVC PL HS ES

Safety precautions

This product is intended for use only by professionals and with reference to the corresponding Safety data sheet. All work involving the application, use and handling of this product shall be done in accordance with relevant national HSE regulations.

Storage and shelf life

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life:	REMOPLAST HS-KST (Standard, FAST, RAPID)	24 Month from manufacture in unopened can.
	REMOPLAST HS-HÄRTER K.B	24 Month from manufacture in unopened can.
	HS-FAST HÄRTER KOMP.B	24 Month from manufacture in unopened can.
	REMOPLAST HS-RAPID HÄRTER	24 Month from manufacture in unopened can.

Subjected to re-inspection thereafter.

Disclaimer

The provided information is based on our experience and on current knowledge, for its completeness, we assume no liability. As we take no influence on the processing, it lies within the obligation of the user to test, whether the product is suitable for the intended purpose, before using it. Any change in the processing procedure, the environmental conditions, or the failure to comply with instructions may unfavorably influence the result.

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