

ZINGACERAM HS

Zingaceram HS is a high solid two-component coating that can be used for a wide range of applications as a primer or sealer. It can also be applied as a topcoat on structures not exposed to direct UV light. Zingaceram HS has very good abrasion resistance and excellent corrosion protection properties. Due to its high solid (HS) content it shows excellent compatibility on ZINGA.

PHYSICAL DATA AND TECHNICAL INFORMATION

WET PRODUCT

Components	Epoxy resins pigmented with micaceous iron oxide and ceramic fillers, cross linked with a phenalkamine hardener.
Density	- Base (Part A): 1.76 kg/dm ³ - Hardener (Part B): 1.00 kg/dm ³ - Base + Hardener: 1.64 kg/dm ³
Solid content	- 88% by weight (±2%) - 78% by volume (±2%)
Type of thinner	HS Thinner
Flash Point	32°C
Potlife	2.5 - 3 hours
VOC	196 g/L (= 120 g/kg)

DRY FILM

Colour	Grey
Special characteristics	- High solid Content - High chemical resistance - Temperature resistance of dry film: 95-100°C with peak up to 120°C - pH resistance: 2.5 pH to 13 pH

PACKING

5 L	4 L part A and 1 L part B
20 L	16 L part A and 4 L part B

CONSERVATION

Shelf life	- Part A: 24 months - Part B: 24 months -*Shelf Life: when kept at recommended storage conditions and in original unopened and undamaged containers
Storage	Store in a dry well-ventilated place at temperatures between 0°C and 30°C. Keep away from direct sunlight. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.

CONDITIONS

SURFACE PREPARATION

When the waiting time between the successive coats is abnormally prolonged or in extremely polluted areas, the Zingacised surface can become contaminated. All contaminations that hamper the adhesion of the paint should be removed by appropriate means. Salt deposits or other water-soluble contaminations should be removed with water and brush, water under high pressure or steam. Possible white rust on ZINGA should be removed with water and soft copper brush.

ENVIRONMENTAL CONDITIONS DURING APPLICATION

Ambient temperature	- Minimum 5°C
Relative humidity	- Maximum 85% - Do not apply on a damp or wet surface
Surface temperature	- Minimum 3°C above the dew point. - No visual presence of water or ice - Maximum 60°C

APPLICATION INSTRUCTIONS

GENERAL

Application methods	Zingaceram HS can be applied on top of ZINGA by brush and roller or conventional spray-gun or by airless spraying.
Stripe coat	it is always recommended to treat corners, sharp edges, bolts and nuts before applying a uniform coat.
Cleaning	Cleaning of equipment should be done with HS thinner or an epoxy thinner.

APPLICATION BY BRUSH AND ROLLER

Dilution	For optimal use, dilute Zingaceram up to 5% (v%) with HS Thinner.
Type of brush or roller	- Industrial round brush - Short fibre roller (mohair)

APPLICATION BY CONVENTIONAL SPRAY-GUN

Dilution	10-15% (v%) with HS Thinner depending on nozzle size. More dilution for same nozzle sizes will give a smoother surface finish ; which will increase the abrasion resistance of the Zingaceram HS layer.
Pressure at the nozzle	2 to 3 bar for a structured aspect; higher pressure for a smoother aspect.
Nozzle opening	2 - 2.5 mm for a structured aspect; smaller for a smoother aspect.

APPLICATION BY AIRLESS SPRAY

Dilution	0-5% (v%) with HS Thinner depending on nozzle size. More dilution for same nozzle size will give a smoother surface finish.
Pressure at the nozzle	150-250 bar
Pump ratio	min. 45/1
Nozzle opening	0.019 - 0.025 inch / 0.38 - 0.63 mm

**APPLICATION ON ZINGA**

Mist (tie) coat	- Application at least 4 hours at 20° in a well ventilated room after ZINGA is touch dry. See TDS ZINGA - 25-40 µm DFT in a continuous layer - Diluted according to TDS
Full coat	- 2 hours after touch dry of mist coat - DFT = specified DFT – Mist coat (25-40 µm DFT) - Diluted according to the TDS

OTHER INFORMATION**COVERAGE AND CONSUMPTION**

Theoretical coverage	- For 60 µm DFT: 13 m ² /L - For 120 µm DFT: 6,5 m ² /L
Theoretical consumption	- For 60 µm DFT: 0,077 L/m ² - For 120 µm DFT: 0,15 L/m ²
Practical coverage and consumption	Depends upon the roughness profile of the substrate and the application method.

DRYING PROCESS AND OVERCOATING

Drying time	For 60 µm DFT at 20°C in a well-ventilated environment: » Dust dry: 1 hour » Touch dry: 2 hours » Dry to handle: 4 hours » Fully cured: 5 days
Overcoating with a topcoat	- Minimum overcoat time for 60 µm/120 µm DFT: minimum 8 hours/12 hours after touch dry - Maximum overcoat time 5 days. Depending on environmental conditions overcoat time can be reduced or extended.

RECOMMENDED SYSTEM

ISO 12944	Tested according to ISO12944 C5 High: ZINGA 1 x 60-80 µm DFT + Zingaceram HS 1 x 120 µm DFT ZINGA 1 x 60-80 µm DFT + Zingaceram HS 1 x 120 µm DFT + Zingaceram EP 1 x 60 µm DFT ZINGA 1 x 60-80 µm DFT + Zingaceram HS 1 x 120 µm DFT + Zingaceram PU 1 x 60 µm DFT
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For more specific and detailed recommendations concerning the application of Zingaceram HS, please contact the Zingametall representative. For detailed information about the health and safety hazards and precautions for use, refer to the Zingaceram HS safety data sheet.

The information on this sheet is merely indicative and is given to the best of our knowledge based on practical experience and testing. The conditions or methods of handling, storage, use or disposal of the product cannot be controlled by us and are therefore outside our responsibility. For these and other reasons we retain no liability in case of loss, damage or costs that are caused by or that are linked in any way to the handling, storage, use or disposal of the product. Any claim concerning deficiencies must be made within 15 days upon reception of the goods quoting the relevant batch number. We retain the right to change the formula if properties of the raw material are changed. This data sheet replaces all former specimens.