DENAS COLOR	**TECHNICAL SHEET**	ISO 9001 REGISTERED QUALITY SYSTEM; ISO 14001 REGISTERED EMS
Product name:	**DENAKOR HG 56**	Page: 1/2 Date: 13.4.2016

Characteristics:	Dispersion acrylic anti-corrosion primer intended for metals
Description:	Anticorrosion water-thinnable single-pack primer formulated on the basis of acrylic dispersion intended for steel and light metals.
Composition (general):	The mixture based on the acrylic dispersion containing a combination of anti-corrosion pigments containing zinc phosphate, color pigments, fine extenders, coalescence agents, rheology modifiers and other ingredients adjusting its properties. As thinner, it contains water and a small amount of glycol-ether-based solvents; it does not contain any aromatic solvents or white spirit.
Application:	It is used as a primer for steel, aluminum and galvanized structures. The paint is fit for the coating of metal roofs, plumber structures, steel bridges, columns, railings, industrial buildings and technological facilities and other structures in civil construction and reconditioning. The paint can be used for coatings on the exteriors as well as interiors and for partly corroded substrate.
Shades:	It is made according to RAL, EUROTREND, NCS, ČSN color charts or in agreed color shades.

Properties:	**Paint:**
Density (g/cm^3):	1.10 – 1.3
Volume solids ONL (%):	35 - 45
Weight solids (%):	40 - 55
KU viscosity	60 - 100
Flow time by use of flow cups F6 (s):	10 - 50
VOC (volatile organic compounds) (kg/kg):	0.03 - 0.08
0.006 TOC (total organic carbon content) (kg/kg):	0.02 - 0.05
Maximum permissible value of VOC content (g/l):	140
Max. VOC content in the product in the ready-to-use condition (g/l):	104
Water-thinnable paint category:	A/i - single-pack paints with a special function.
Appearance/color:	Liquid
pH (at 20 °C)	8 - 10
Gloss value (at 60°):	4.0 – 10.0
Hardness (2H/80 °C):	min. 30%
Miscibility:	Miscible with water
Adhesion by the grid-cutting method:	Degree 0 (cut edges are completely smooth and free of any defects)
Drying time, degree 1 (dust-free):	45 min.
Drying time, degree 2 (dry to touch):	1 hr
Drying time, degree 4 (dry-through)	1hr 30min

Substrate preparation:	The substrates must be dry, free from any mechanical and greasy impurities, corrosion and residues of old paint incoherent with the substrate. The recommended and most suitable cleaning methods include blasting the surface or degreasing using a suitable agent.
Application conditions:	It is recommended that the application method and the application conditions are always discussed with the manufacturer, who will adapt the composition of the paint to the specific conditions. The air and substrate temperatures during the application and drying of the paint shall not fall below +5 °C.
Thinning:	The paint can be thinned with water as required to the resulting thickness and application method, but not more than 20 %.
Recommended method of application:	With a paint brush, a paint roller or by spray painting - air, pneumatic, high-pressure - Airless, Airmix

Recommended coating system:	1 - 2 layers of DENAKOR HG 56, the optimum paint thickness 50 -100 µm DFT, the re-spray interval with two layers is 12 hrs at 20 °C; if additional drying is employed at temperatures to 80 °C, the interval can be reduced up to 2 hrs. 1 - 2 layers of DENATOP P, dispersion acrylic enamel, the optimum layer thickness 80 µm DFT, the re-spray interval between the primer and the enamel must be at least 6 hrs; the same applies to 2-layer enamel at 20 °C; if additional drying is employed to 80 °C, the interval can be reduced. DENATOP R, DENATOP P/AU, DENAPUR or EPOXIDEN E can also be used as top coats.
Application data:	The enamel shall be applied with a paint brush, a paint roller or by spray painting in the supplied consistency, without any thinning in one or two layers. The paint can be additionally dried.
Spreading capacity and recommended thickness:	The theoretical consumption is 5 - 7 m^2 /kg at the optimum dry layer thickness of 50 µm per one layer. The recommended coat thickness ranges from 50 to 100 µm DFT

Wet-film thickness WFT (µm)	125	250
Dry-film thickness DFT (µm)	50	100
Theoretical spreading rate (m^2/kg)	6.70	3.40
Theoretical spreading rate (kg/m^2)	0.15	0.30

Packaging:	Plastic or metal containers weighing 0.8 - 200 kg.
Storage:	Store in original and well-closed containers in cool, dry and well-ventilated areas at a temperature from +5 to 25 °C. Protect from freezing. Keep the mixture separated from drinks, foodstuff, feedstuff and medicine. Store away from the reach of children. The shelf life is a minimum of 12 months from the date of manufacture. The product must not freeze.
Disposal of packaging and waste:	Product residues and contaminated packaging shall be disposed of as hazardous waste in accordance with the applicable regulations.
Safety and hygiene:	When handling the product, observe the instructions provided in the safety data sheet. Observe the principles of personal hygiene. If on the skin, wash the affected areas with soap and water. In case of contact with eyes, rinse immediately with plenty of water, seek medical advice. If swallowed, rinse mouth with water, do not induce vomiting and get medical attention.
Legislation, certificates, attestations, other tested parameters:	See the Declaration of Conformity