

MAC-90 ACRYLIC 1239 TOPCOAT

PRODUCT DATA SHEET

A high gloss high solids two component acrylic resin based polyurethane topcoat, cured with aliphatic isocyanate. Sustainable finish, formulated specifically for protection under critical climate and marine circumstances. Durable topcoat for trucks and trailers, agricultural, construction and earthmoving equipment (ACE). For applications where high requirements are set for colour and gloss retention.

Type: Polyurethane finish

Usage: Up to and including C5 according to ISO 12944. DTM in a C2/C3 environment

Physical Information:

Finish:	Gloss (90 GU \pm 5 at an angle of 60°)
Colors:	Standard colours (e.g. RAL)
Volume Solids:	58% \pm 2 (varies depending on color)
VOC (mixed):	420 g/l
Density:	At 20 °C 1.1 \pm 0.15 kg/l (varies depending on color)
Theoretical Coverage:	At a dry film thickness of 50 μ m: 11,6 m ² /l
Heat Resistance:	140 °C (dry load)
Shelf life:	In original well shut packaging 12 months, stored inside at temperatures between 5 °C and 40 °C.
Potlife:	5 Hours 20 °C
Thinner:	Markaj Acrylic Thinner
Mix Ratio:	3:1 by weight

Processing Data

	Airless spray	Brush-roller	Airspray
Thinner	-	-	-
Amount	5 vol.%	10 vol.%	10-20 vol.%
Nozzle	min. 0.021 inch	n.a	1.2-1.7 mm
Flow pressure	160 bar	n.a	3-5 bar
Dry film thickness	80 μ m	80 μ m	80 μ m

Cleaning tools: Immediately after application using thinner - Markaj Acrylic thinner.

Mixing Instructions: preferably using a mechanical mixing device. The temperature of the mixed product should at least be 10 °C during application.

Drying Times

	10 °C	20 °C
Touch:	1.5 hours	1 hour
Handle:	2 hours	1.5 hour
Recoat:	2.5 hours	2 hours

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Surface Preparation

Steel Roughness profile 10 – 25 µm

Untreated Steel The surface needs to be pretreated according ISO12944 part 4 § 6.2.3. Remove grease, oil, dirt etc. upon cleaning by sandblasting, phosphating or mechanical methods.

Application Conditions

Application temperature should be in the range of 5°C to 40°C to get the perfect result. Keep application area well ventilated during application and drying, in order to reduce evaporated solvents. This is necessary to acquire good drying conditions and for the good of the applicators' health.

Environment and health

Harmful and irritating in contact with skin, eyes and by inhalation. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. Do not eat, drink or smoke during application.

Maintenance

It is recommended to clean the surface regularly and to inspect the coats of paint for defects annually. Touch up any defects with the original paint system.

Packaging 24 kg cans.

Notes: All information provided in this technical bulletin may change from time to time as a result of experience, developments in raw materials, and research and development activities. For additional information, please contact your regional sales representative or MARKAJ directly (Istanbul).