

Technical Data Sheet

JAZEERA COLD PLASTIC

JI-56001

Description:

A high quality two component, solvent free, especially designed for all types of traffic line marking, floors and at the most difficult places, resistant to abrasion and wear, based on the latest technology of road marking paints MMA, fast drying and highly durable, that maintains the sustainability of traffic marks, in addition to solar reflection property which decreases surface temperature.

Recommended Use:

Recommended to use for exterior and interior applications on asphalt, concrete and epoxy floors as a line marking / sign markings in the public or private roads, runways, parking lots, buildings, factories, hospitals, etc.

Characteristics:

- Long life.
- Long lasting glass beads retention.
- Excellent resistance to abrasion.
- Superior durability.
- Slip resistance properties when added (**Jazeera Aggregate**).
- Suitable to use on hard wearing areas as bumps, U turns, bus stops, parking lots & speed slow down areas.
- Resistant to the effects of vehicle tires.
- Sun rays reflection which reduces surface temperature.
- Can be applied in several shapes.
- Excellent adhesion.
- Excellent resistance to UV and weather conditions.

Physical Constants:

• Finish	Sheen.		
• Color	As per "Jazeera Cold Plastic" catalog.		
• Volume Solid	100%	ASTM D2697.	
• Specific Gravity	1.40	ASTM D1475	
• DFT	1-3 mm.		
• Theoretical Spreading Rate	1 m²/L (0.7 m²/Kg) @ 1000 micron DFT.		

Tests:

• UV Resistance	Pass	ASTM G154-12a	Wimpey Laboratories, Dubai.
• Dry Slip Resistance	Pass	ASTM E303	Wimpey Laboratories, Dubai.
• Wet Slip Resistance	Pass	ASTM E303	Wimpey Laboratories, Dubai.
• Chemical Resistance	Pass	ASTM D2792	Wimpey Laboratories, Dubai.
• Resistance to Petroleum (Kerosene)	Pass	ASTM D2792	Wimpey Laboratories, Dubai.
• Impact Strength	14.3 Joules	ASTM D2794-93	Wimpey Laboratories, Dubai.
• Abrasion Resistance	325.7 mg /1000 cycles	ASTM D4060-19	Wimpey Laboratories, Dubai.
• Crack Resistance	Pass	AASHTO M249	Wimpey Laboratories, Dubai.
• VOC:	14.27 g/L	ASTM D2369	METS - UAE.
• VOC Emission After Application	Pass	LEED Requirements - Ver.4	METS - UAE.

Surface Preparation:

- Remove old paint from surfaces completely.
- The surface must be treated by removing all forms release and protrusions to get a suitable surface for application.
- Make sure that the surface is clean, dry, free from dust, oil, grease, salt and mold.
- New asphalt or bituminous surfaces should be cured for 30 days before application.

Application Guide:

- The surface must be free from dust, grease, oil and other contaminants completely.
- The required temperature during application must not be less than **10°C**; the surface moisture should not exceed 8% and the relative humidity at work place not to exceed **70%**.
- Maximum pH of **9**
- Paint should be stirred carefully before use.
- Do not apply on wet and moistened surfaces until get completely dry.
- Avoid application in windy, rainy weather and high temperatures, as well as under direct sunlight.

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Mixing Ratio:

	Liquid	:	Powder
by weight:	1 Kg	:	20 gram
by volume:	1 L	:	28 gram

-Mixing ratio should be observed to obtain a homogeneous mixture.

Pot Life: 5 - 10 minutes @ 20 °C

Mixing procedure:

- Stir base by using a low speed mechanical stirrer.
- Pour hardener into component A.
- Mix rapidly the two components continuously until a homogenous mixture and uniform color obtained.

Painting System:

-Firstly: For Large areas (Bus Stop, U turns, Parkings, Speed slow down areas):

1- Anti-skid 2 layers structure:

- Apply 1st coat of "Jazeera Cold Plastic" by squeegee or trawl with **1000** micron thickness.
- For anti-skid property:

-Broadcast Jazeera Aggregate G30-40-45 (which should be sprinkled on wet paint surface by the "drop on" method).

- Remove access aggregate after dry.
- Apply 2nd coat "Jazeera Cold Plastic" by roller with **500** micron thickness.

-Or mix Jazeera Aggregate G10-30 with Jazeera Cold Plastic before application.

- Apply one or two coats of Jazeera Cold Plastic according to surface condition.
- After full drying apply one coat of "Jazeera Cold Plastic Clear" (100 micron DFT) by roller.

2- Smooth finish system:

- Apply one coat of "Jazeera Cold Plastic" by squeegee or Trawl with **1-3** mm thickness.
- After full drying apply one coat of "Jazeera Cold Plastic Clear" (100 micron DFT) by roller.

-Secondly: For Road Marking Applications:

1- Plain Line Application:

- Apply one coat of "Jazeera Cold Plastic" by : (roller or drop box or hand pushed machine or special machine (**extrusion machine**)).
- For more reflection properties, the glass beads should be added.
- After full drying apply one coat of "Jazeera Cold Plastic Clear".

2-Spotflex Application:

- Apply one coat of "Jazeera Cold Plastic" by special machine (extrusion type).
- For more reflection properties, the glass beads can be added.
- After full drying apply one coat of "Jazeera Cold Plastic Clear".

3-Texture (Stochastic) & Profile Application:

- Apply one coat of "Jazeera Cold Plastic" by (special machine (extrusion type) or hand pushed machine.
- For more reflection properties, the glass beads can be added.
- After full drying apply one coat of "Jazeera Cold Plastic Clear".

Application Tools:

- Roller : Soft & smooth suitable roller.
- Squeegee , Trawl
- Drop box, Hand pushed machine, Special machine (Extrusion type).

Thinner:

- Not Recommended.

Thinning Ratio:

- Ready to use.

Drying Time:

Drying Times: Are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

Temperature:	25°C/77°F
Hard Dry:	30 minutes.

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Cleaning Tools:

Jazeera Thinner 505.

Packing:

Packed in: Drum 7.44 Ltr. + Powder 0.208 kg

Shelf Life & Storage:

Shelf life : 12 months @ 25 °C.

Storage: The container should be kept in sealed, dry, cool, well ventilated place and stored in accordance with national regulations.

Safety Precautions:

Please read and follow the precautionary notices displayed on the container, and all caution statements on the MSDS of this product.

- Handle with care before and during use.
- During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapour, should be strongly avoided.
- When working with paint in in-sufficient ventilated areas, forced ventilation should be provided. For spray application system, eye, skin, respiratory protection are always recommended.
- Keep away from the reach of children.
- For environmental safety: please donate the leftover paint and packaging to your local authorized institution for usage or recycling .
- Note: Wastes and empty containers should be disposed of in accordance with local regulations made under the Control of Pollution Act and the Environmental Protection Act.

Disclaimer:

To the best of our knowledge the technical data listed herein is true and accurate up to publication date and is subject to change without prior notice. User must contact Jazeera Paints Company to verify of any modifications before specifying or ordering the product. Thus, information given in this sheet is not intended to be exhaustive and any person using the product other than the recommendations in this sheet or without reverting to our Jazeera TSD, he should take his accountability in this connection.

As we are not capable to control the quality and the substrate's conditions as well as the factors that affect on using, or applying the product, so we never give any written or implied guarantee in these documents, but we guarantee our products to conform to Jazeera quality while we assume no responsibility for coverage, performance or injuries resulting from application. Liability "if any" is limited to replace the products mentioned above.