

**PROSIL SP
IOZ-70100**

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PRODUCT DESCRIPTION & USES

PROSIL SP IOZ-70100 is a combination of heat resistant alloy and heat resistant silicate solution that produces an inorganic rust preventive coating that adheres mechanically to the steel and giving an effective and long-term protection against corrosion without suffering from blistering and loss of adhesion. It is compatible with organic over coatings as well as with inorganic over coatings.

PROSIL SP IOZ-70100 is extremely resistant to heat (up to 800 °C) and secondary surface preparation cost can be decreased. It has excellent welding and cutting properties and presents no health hazard to the welder. This product is recommended as a shop primer for steel substrate of vessel, bridges, oil tanks, and marine structures.

FEATURES

- Excellent Corrosion Resistance
- Outstanding Mechanical Properties
- Excellent Solvent and Abrasion Resistance
- Resistance to Heat up to 800 °C

PRODUCT SPECIFICATION

Colors : Brown, Green and Grey
Finish : Flat
Volume Solid : 35 ± 2%
Specific Gravity : 2.2 ± 0.05 g/cc
Flash Point : 22.5 °C
Packaging : 20 Liters set
Storage Stability : 6 Months. If it is stored in accordance with national regulations. Keep away from source of heat and Ignition. Keep well ventilated space also must be kept tightly closed.

APPLICATION

Application Condition : 25 – 35°C, 60 – 90% RH
Mixing Ratio by Volume :

Component A	:	Component B	=	1 : 1.5 (v/v)
(IOZ-70100 Part A)	:	(IOZ-70100 Part B)		

Thinner and Cleaner : THZE – 70100
Application Method : Airless Spray
Thinning Ratio by Volume : 5 – 25 %
Tip Size for Airless Spray Gun : 0.021 – 0.023 inch Air Pressure : approx. 160 bar; 2300 psi
Wet Film Thickness : 28.5 – 85.7 microns or 1.12 – 3.37 mills
Dry Film Thickness : 10 – 30 microns or 0.40 – 1.18 mills
Theoretical Coverage : 11.70 m²/Lt set (DFT = 30 microns)
Pot Life :

30°C	35°C
11 - 12 hours	7 - 8 hours

FILM PROPERTIES

Drying Time (@ DFT = 30 mic) :
• Surface Dry :
• Hard Dry :
Re-coating Interval :

30°C	35°C
1 – 2 min	1 – 2 min
2 – 3 min	1 – 2 min

Minimum 7 days
Maximum 180 days

RECOMMENDED COATING SYSTEM

Preceding Coat	: PROSIL SP IOZ-70100
Intermediate Coat	: PROGUARD Primer EPP-20100
Finish Coat	: According to specification
Recommended Dry Film Thickness	: 1 coat (30 microns / coat)

SURFACE PREPARATION

1. All surfaces should be clean and free from contamination (rust, dust, oil grease etc.) and completely dry (surface temperature must be higher than the dew point (3 °C or more))
2. All welds should be relatively smooth without sharp edges and free of weld slag and spatter
3. Remove soluble salts or other similar contaminations by water cleaning or other appropriate methods, not exceed the limit of 50 mg/m² as sodium chloride equivalents measured according to ISO 8502-9:1998. No dust should be visible on the surface before coating.
4. Checking of the steel surface cleanliness and roughness profile shall be carried out at the end of the surface preparation and before the application of the shop primer.
5. In only new building process, blast a steel plate to minimum Sa 2½ (ISO 8501-1:2007) and surface profile between 30-50 micron is recommended.
6. Blast cleaning with grit abrasive cleaning to ISO 8501 – 1 Sa 2½ and anchor profile of 40 - 50 microns are recommended for the highest performance. For touch up, ISO 8501–1 St3 or SSPC – SP 11 with anchor profile of minimum 20 microns is recommended.
7. Provide adequate ventilation during application.

INSTRUCTION FOR USE

Prepare one mixture (A+B) as much as needed for application.

Mix ratio **Comp. A : Comp. B = 1 : 1.5 (by volume)**. Mixed material could apply using airless spray, or brush (for small area). Use Thinner **THZE-90700** as needed after mixing component. Do not apply the mixed material after pot life time is over.

SAFETY PRECAUTION

Avoid contact with the skin and eyes. Wear suitable protective coating, such as overalls, goggles, dust mask, and gloves. Use barrier cream. Provide adequate ventilation during application. Do not breathe vapor of spray. This product is flammable. Do not smoke. Use only explosion proof equipment.

FIRST AID:

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| General | : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| Eyes | : In the case of accidental splashes, flush eyes with clear running water for 5 minutes while holding eyelids open. If irritation persists, seek medical attention. |
| Skin | : Wash off thoroughly with plenty of water and soap. Do not use solvent or thinner. Removed contaminated clothing. If irritation persists, seek medical attention. |
| Inhalation | : Remove affected person to fresh air area, loosen collar, and provide oxygen if breathing is difficult. If affected person is not breathing, administer CPR and seek emergency medical attention. |

Note

1. Ventilation shall be maintained from coating application until the completion of curing in order to remove residue of solvents and promote curing.
2. Density measured from product samples without thinning. Values may vary. The value of theoretical coverage includes porosity of the coating.
3. Agitate Paste with a power agitator until it is turned homogeneous, and then combine entire contents of Base with Paste and mix thoroughly with power agitator. Then add appropriate thinner and mix thoroughly.
4. Continue stirring slowly to avoid precipitate. Stirring for long time at high speed is not recommendable, since it could cause fever, gel, viscosity build-up, etc.
5. Expected life for outdoor exposure (under normal conditions) : about 6 months above DFT 15 microns.
6. Wet film thickness is reference only (unmeasurable)
7. For repair, use PROSIL SP IOZ-70100 to apply Touch Up.
8. Oleo resinous paint over PROSIL SP IOZ-70100 is no recommended if the substrate shall be located under the conditions of high humidity or underwater.
9. Drying time varies depending on the condition (temperature, humidity, surface temperature, ventilator, etc.).
10. Drying time can be adjusted by Base type, thinner type, and thinning ratio. Drying time becomes longer if relative humidity becomes low. 50 - 90 %R.H. is recommendable condition.
11. For the PSPC use, please refer to PSPC's TDS. There are different recommendations (e.g., Humidity: Max 85%R.H.).

DISCLAIMER

This document contains information issued based on the best and latest of Propan's knowledge in accordance to laboratory testing and practical application experience. The end user must test the product's suitability for their specific application and purpose. Propan shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements. This document is subjected to change without further notice. Please consult Propan for any specific guidance on the suitability of this product for their needs or for any specific application practices.