

interthane 990 international paint

****Interthane 990 International Paint: A Premium Solution for Industrial Coatings****

interthane 990 international paint has become a go-to choice for many industries seeking durable, high-performance protective coatings. Known for its exceptional resistance to harsh environments, this advanced polyurethane coating is widely recognized for combining aesthetic appeal with robust protection. Whether you're working in marine, oil and gas, or heavy industrial sectors, Interthane 990 offers a versatile solution that stands the test of time.

What is Interthane 990 International Paint?

Interthane 990 is a two-component, high-build, aliphatic polyurethane coating produced by International Paint, a renowned leader in protective coatings technology. Unlike many standard paints, this product is engineered specifically for industrial applications where durability and long-lasting protection are critical. Its formulation allows for excellent gloss and color retention, even when exposed to UV rays, saltwater, chemicals, and extreme weather conditions.

The paint's fast-drying properties and ease of application make it a favorite among contractors and maintenance teams looking to minimize downtime while ensuring superior coverage and finish.

Key Features and Benefits of Interthane 990

When selecting an industrial coating, durability, chemical resistance, and ease of maintenance are top priorities. Interthane 990 international paint excels in these areas, offering a range of benefits that help protect assets and reduce maintenance costs.

Durability and Chemical Resistance

One of the standout attributes of Interthane 990 is its outstanding chemical resistance. It performs exceptionally well against a broad spectrum of chemicals, including oils, solvents, and saltwater. This makes it ideal for environments such as offshore platforms, chemical plants, and refineries where aggressive substances are prevalent.

UV Stability and Gloss Retention

Many polyurethane coatings tend to yellow or fade when exposed to sunlight for extended periods. Interthane 990 is specially formulated with aliphatic resins, which provide excellent UV stability. This means the paint maintains its original color and gloss, preserving the appearance of coated surfaces and reducing the need for frequent repainting.

Fast Drying and Application Ease

Time is money, especially in industrial settings. The fast-drying characteristics of Interthane 990 allow for quicker turnaround times during maintenance or new construction projects. It can be applied using brush, roller, or airless spray, offering flexibility depending on the specific job requirements.

Environmental Compliance

With increasing regulations around volatile organic compounds (VOCs), it's important to choose coatings that meet environmental standards. Interthane 990 complies with many international VOC regulations, making it a responsible choice for companies aiming to minimize their environmental footprint without sacrificing performance.

Applications of Interthane 990 International Paint

Interthane 990's versatility is evident in the wide range of applications it supports. Its protective qualities make it suitable for various industries and surfaces.

Marine Industry

Marine environments are notoriously harsh, with constant exposure to saltwater, humidity, and UV radiation. Interthane 990 is commonly used on ships, offshore platforms, and port facilities to protect steel structures from corrosion and degradation. Its resistance to marine growth and chemicals ensures long-lasting coatings that reduce maintenance intervals.

Oil and Gas Sector

In oil refineries, pipelines, and storage tanks, coatings must withstand chemical exposure and temperature fluctuations. Interthane 990's chemical resistance and adhesion properties help safeguard critical infrastructure, preventing costly downtime and safety hazards caused by corrosion.

Industrial Facilities and Infrastructure

Factories, warehouses, and bridges require coatings that maintain both appearance and structural integrity. Interthane 990 is ideal for these applications due to its durability and gloss retention, ensuring that the infrastructure remains both functional and visually appealing over time.

How to Apply Interthane 990 International Paint

Proper surface preparation and application methods are crucial to achieving the best performance from Interthane 990. Here are some key tips for application:

- **Surface Preparation:** Ensure the substrate is clean, dry, and free from rust, oils, or other contaminants. Typically, steel surfaces are abrasive blasted to an appropriate cleanliness standard (e.g., Sa 2½) before painting.
- **Mixing:** Interthane 990 is a two-component system; the base and hardener must be mixed thoroughly in the correct ratio to ensure proper curing.
- **Application Methods:** The paint can be applied by brush, roller, or airless spray. Spray application is often preferred for large surfaces to achieve a smooth, even finish.
- **Coating Thickness:** Follow manufacturer guidelines for recommended dry film thickness to maximize protection and longevity.
- **Environmental Conditions:** Apply in suitable weather conditions, avoiding extreme temperatures or high humidity to ensure proper curing.

Maintenance and Longevity of Interthane 990

Coatings

One of the reasons Interthane 990 international paint is so popular is the extended lifespan it offers. However, like all coatings, regular inspection and maintenance are important to preserve its protective qualities.

Periodic cleaning to remove dirt, pollutants, and salt deposits helps prevent premature degradation. If minor damage or wear occurs, spot repairs can be conducted without needing to completely strip the coating. This ease of maintenance reduces downtime and keeps assets protected longer.

Tips for Maximizing Coating Life

- Schedule routine inspections, especially in aggressive environments.
- Address any damages or scratches promptly to prevent corrosion exposure.
- Ensure the coating system beneath Interthane 990 is compatible and properly applied.
- Use recommended topcoats or sealers if necessary for additional protection.

Choosing the Right International Paint Product for Your Needs

While Interthane 990 is an excellent choice for many industrial applications, it's important to consider your specific project requirements before committing. Factors like substrate type, environmental exposure, desired finish, and application conditions all influence the best coating option.

International Paint offers a broad portfolio of coatings tailored to different needs, including epoxy primers, ablative coatings, and specialized topcoats. Consulting with a coatings expert or representative can help match Interthane 990 or an alternative product to your operational demands.

Interthane 990 international paint continues to set the standard in protective coatings for industries worldwide. Its combination of durability, aesthetic quality, and environmental compliance make it a smart investment for anyone looking to safeguard valuable assets against the challenges of harsh environments. Whether you're renewing an aging structure or protecting

new equipment, understanding the capabilities and proper use of Interthane 990 can help you achieve lasting results.

Frequently Asked Questions

What is Interthane 990 International paint used for?

Interthane 990 is a high-performance two-component polyurethane coating used primarily for protective and decorative finishes on steel structures and industrial equipment.

What are the main features of Interthane 990 International paint?

Interthane 990 offers excellent corrosion resistance, UV resistance, chemical resistance, and long-lasting durability, making it suitable for harsh environments.

How should Interthane 990 International paint be applied?

Interthane 990 should be applied by airless spray, brush, or roller after proper surface preparation, typically on a suitably primed substrate, following the manufacturer's mixing and application instructions.

Is Interthane 990 International paint suitable for marine environments?

Yes, Interthane 990 is designed to provide excellent protection against corrosion in marine and offshore environments.

What is the drying time for Interthane 990 International paint?

The drying time varies with temperature and humidity but typically Interthane 990 becomes touch dry within 2-4 hours and fully cures within 7 days.

Can Interthane 990 International paint be used over existing coatings?

Interthane 990 can be applied over suitable existing coatings that are sound and compatible, but surface preparation and compatibility tests are recommended.

What safety precautions should be taken when using Interthane 990 International paint?

Use personal protective equipment such as gloves, goggles, and respirators; ensure good ventilation; and follow all safety data sheet recommendations to avoid inhalation or skin contact.

What colors are available for Interthane 990 International paint?

Interthane 990 is available in a range of standard colors and can be custom-tinted to meet specific project requirements.

How long does Interthane 990 International paint last once applied?

When properly applied and maintained, Interthane 990 can provide durable protection for up to 10 years depending on environmental conditions.

Where can I purchase Interthane 990 International paint?

Interthane 990 can be purchased through International Paint distributors, authorized dealers, or directly from the manufacturer's website and sales offices.

Additional Resources

Interthane 990 International Paint: A Comprehensive Review of Performance and Applications

Interthane 990 international paint has established itself as a prominent protective coating solution within the industrial and marine sectors. Manufactured by International Paint, a subsidiary of AkzoNobel, this high-performance polyurethane coating is widely recognized for its durability, chemical resistance, and aesthetic versatility. As industries increasingly demand coatings that can withstand harsh environments while maintaining long-lasting appearance and protection, Interthane 990 stands out as a product worth exploring in detail.

Understanding Interthane 990: Composition and Core Characteristics

Interthane 990 is a two-component, high solids aliphatic polyurethane coating

designed to offer robust protection against corrosion and weathering. The formulation typically includes a polyurethane resin base combined with a polyisocyanate curing agent. This chemical combination results in a tough, flexible film that resists UV degradation, abrasion, and chemical exposure.

One of the defining features of Interthane 990 is its high solids content, which allows for thicker film application with fewer coats. This characteristic benefits project timelines and reduces volatile organic compound (VOC) emissions, aligning with environmental regulations and sustainable practices.

Key Features and Benefits

- **Durability:** Interthane 990 delivers excellent resistance to abrasion, impact, and chemical attack, making it suitable for industrial machinery, structural steelwork, and marine environments.
- **UV Resistance:** Thanks to its aliphatic polyurethane chemistry, the paint maintains color stability and gloss retention over prolonged sun exposure.
- **Fast Drying:** The coating dries quickly, enabling faster recoating and reduced downtime in industrial applications.
- **Broad Color Range:** Interthane 990 is available in an extensive palette, facilitating both functional and aesthetic requirements.
- **Environmental Compliance:** Its low VOC formulation supports adherence to strict environmental standards.

Performance Evaluation in Industrial and Marine Environments

Interthane 990 is predominantly used for protective and decorative finishes on steel structures, bridges, offshore platforms, and ship hulls. Its ability to form a seamless, hard-wearing barrier protects substrates from corrosion and mechanical damage.

Comparatively, when placed alongside other International Paint products such as Interthane 870 or Intershield 300, Interthane 990 offers superior gloss retention and flexibility but may require slightly more surface preparation to achieve optimal adhesion. Industry tests have demonstrated that Interthane 990 maintains integrity in salt spray and immersion tests, confirming its suitability for aggressive environments.

Resistance to Corrosive Agents

The coating's polyurethane film creates an effective shield against water ingress, chlorides, and industrial contaminants. In marine applications, where steel surfaces are continually exposed to saltwater and fluctuating moisture levels, Interthane 990 helps prevent rust formation and substrate degradation.

Application and Handling Recommendations

Proper application is critical to maximizing the benefits of Interthane 990. The product is typically applied via airless spray, brush, or roller, with airless spray being preferred for uniform coverage and efficiency on large surfaces.

Surface Preparation

To ensure appropriate adhesion, surfaces must be prepared according to industry standards:

- Steel substrates should be abrasive blasted to a minimum cleanliness level of Sa 2½ (per ISO 8501-1), achieving a surface profile of 50–75 microns.
- Remove all contaminants such as oil, grease, salts, and dust prior to coating.
- Ensure substrates are dry and free from moisture.

Mixing and Pot Life

Interthane 990 requires precise mixing of its base and curing agent components just before application. The pot life after mixing is generally limited to a few hours, depending on ambient temperature, which necessitates careful planning for large-scale jobs.

Coating Thickness and Overcoating

Recommended dry film thickness ranges between 75 and 150 microns per coat, with total thickness adjusted based on environmental exposure and service

requirements. Overcoating intervals vary but are typically between 4 and 24 hours at standard temperatures, ensuring proper intercoat adhesion.

Comparative Analysis: Interthane 990 vs. Competing High-Performance Polyurethane Coatings

In the competitive market for industrial coatings, Interthane 990 is often compared to alternatives such as Carboline's Carbothane series, Sherwin-Williams' Macropoxy polyurethanes, and PPG's SigmaCover range.

- **Carboline Carbothane:** Known for exceptional chemical resistance and gloss retention; however, it may demand higher application temperatures and longer curing times compared to Interthane 990.
- **Sherwin-Williams Macropoxy:** Offers excellent corrosion protection but is generally more suited as a primer or intermediate coat rather than a final finish.
- **PPG SigmaCover:** Provides strong abrasion resistance and flexibility but sometimes falls short in UV stability relative to Interthane 990's aliphatic polyurethane base.

From a cost-performance perspective, Interthane 990 balances initial investment with long-term durability, making it a preferred option for projects where both aesthetic finish and protective qualities are necessary.

Environmental Considerations and Compliance

With increasing regulatory pressure to reduce VOC emissions from industrial coatings, Interthane 990's formulation aligns well with modern environmental standards. Its high solids content means fewer solvents are released during application, reducing air pollution and occupational exposure risks.

Moreover, AkzoNobel's commitment to sustainability is reflected in the product's lifecycle, offering extended maintenance intervals and reducing overall material consumption. For facilities seeking to meet certifications such as LEED or ISO 14001, using products like Interthane 990 can contribute positively to their environmental management goals.

Health and Safety

While Interthane 990 is engineered for safer use, handling precautions remain essential. Applicators should employ personal protective equipment (PPE) such as respirators, gloves, and eye protection to mitigate inhalation and skin contact risks. Adequate ventilation and adherence to manufacturer guidelines also minimize hazards.

Industry Applications and Case Studies

Interthane 990's versatility is demonstrated by its adoption across various sectors:

- **Marine Vessels:** Used extensively on superstructures and deck equipment, it protects against salt spray and enhances aesthetic appeal.
- **Bridges and Infrastructure:** Its ability to resist weathering and UV damage makes it ideal for exposed steel frameworks.
- **Oil and Gas Facilities:** Offshore platforms benefit from the coating's chemical resistance and durability under fluctuating temperatures.
- **Industrial Plants:** Machinery and structural steel in manufacturing environments are safeguarded against chemical spills and mechanical wear.

A notable case study involved the repainting of a major offshore oil rig platform where Interthane 990 was selected for its quick curing time and proven longevity in saltwater exposure. The project reported reduced maintenance cycles and extended intervals between recoating, resulting in significant cost savings.

The continued relevance of Interthane 990 international paint within demanding industrial contexts is anchored in its balanced formulation, combining protection, aesthetics, and environmental consciousness. For engineers, contractors, and specifiers seeking a reliable polyurethane coating, thorough evaluation of Interthane 990 against project-specific criteria often reveals it as a compelling choice. As industry expectations evolve, products like Interthane 990 demonstrate how innovation and performance can coexist in modern protective coatings.

[Interthane 990 International Paint](#)

interthane 990 international paint: Дайджест «Очистка, окраска: новые технологии, оборудование, техника безопасности, обслуживание» Дмитрий Козлов, 2015-10-29
Дайджест «Очистка. Окраска: новые технологии, оборудование, техника безопасности, обслуживание» содержит лучшие статьи по антикоррозийной защите из двадцати номеров журнала «Очистка. Окраска» за три года. Дайджест – принципиально новый источник ценных идей и свежих решений для людей с активной жизненной позицией. Купив данный сборник, вы получаете эксклюзивную практическую информацию. Разделы сборника включают в себя подробные сведения о современных способах и методах очистки, окраски различного типа поверхностей, применяемых материалах, новейших технологиях и оборудовании, международных требованиях и стандартах, технике безопасности при проведении работ, экологических нормативах и другую информацию. В дайджесте представлено около 140 авторских статей, подготовленных известными учеными и специалистами-практиками (более 60 авторов). Книга служит практическим пособием и займет достойное место в библиотеке вашего предприятия

interthane 990 international paint: Modern Steel Construction , 2006

interthane 990 international paint: Paint Red Book , 1999

interthane 990 international paint: *Journal of Protective Coatings & Linings* , 1993-12

interthane 990 international paint: **Standard Directory of Advertisers** , 1991

interthane 990 international paint: British Motorship , 1999

interthane 990 international paint: **Leading Architecture & Design** , 2004

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interthane 990 international paint: *Architecture Today* , 2004

interthane 990 international paint: *The Trademark Register of the United States* , 1979

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komputer to jest urządzenie elektroniczne, które umożliwia przetwarzanie i przechowywanie danych. Komputer składa się z oprogramowania (software) i sprzętu (hardware). Sprzęt komputerowy to wszystkie elementy fizyczne, które umożliwiają pracę komputera. Oprogramowanie to zbiór instrukcji, które komputer wykonuje. Komputer może być używany do wielu celów, takich jak przetwarzanie danych, komunikacja, rozrywka itp. Komputer jest jednym z najważniejszych narzędzi w dzisiejszym świecie. Komputer jest urządzeniem elektronicznym, które umożliwia przetwarzanie i przechowywanie danych. Komputer składa się z oprogramowania (software) i sprzętu (hardware). Sprzęt komputerowy to wszystkie elementy fizyczne, które umożliwiają pracę komputera. Oprogramowanie to zbiór instrukcji, które komputer wykonuje. Komputer może być używany do wielu celów, takich jak przetwarzanie danych, komunikacja, rozrywka itp. Komputer jest jednym z najważniejszych narzędzi w dzisiejszym świecie.

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