

RPC 7555 Removable Protective Coating

PRODUCT DATA SHEET

Revision: 6 September 2022

1. - PRODUCT DESCRIPTION

RPC 7555 is a one component, water based, ambient cured, elastomeric, removable (strippable) protective polymer coating formulated to protect asset surfaces from corrosion, chemicals, scratches, abrasion, and atmospheric elements (all seasons).

RPC 7555 contains a corrosion inhibitor for bare/machined metal surfaces.

RPC 7555 is sprayed or brushed on.

RPC 7555 adheres well to clean surfaces and cures into a tack-free, very “tough”, durable coating.

RPC 7555 is a coating - not a thin film, wax, or oil.

Once the RPC 7555 has cured, it forms a hermetic bond to the substrate surface that will not allow liquids to creep between the cured RPC 7555 and the substrate, protecting the asset surface.

Simply peel off the RPC 7555 when the asset is ready for use, inspection, or maintenance.



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2. - APPLICATIONS

Surfaces:

- Metal - machined, bare, painted, blasted, welded, bolted connections.
- Finely finished substrates.
- Most plastics (not polycarbonate, we have another formulation for polycarbonate).
- Fiberglass
- Glass.
- Ceramic.

Assets in storage, indoor or outdoor:

- For long term outdoor protection longer than one year, see application section below.

Assets in transit - especially ocean transit.

Architectural components:

- Glass
- Plastic (most types)
- Frames
- Paint

Equipment/Equipment Components:

- Mining, agriculture, sand & gravel, construction, marine, fertilizer, oil & gas, asphalt and gravel road maintenance.

Processing facilities:

- Pipe threads, pipe flanges, stray material spill/splash zones, grinding machine enclosures (swarf build-up), paint booths, exhaust hoods, spare parts, bins, etc.

Painting/coating/adhesive production fixtures.

Injection molds/inserts.

Maskant. Easily cut for precise masking.



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3. - TYPICAL PHYSICAL PROPERTIES

RPC 7555 Physical Properties	
Polymer Chemistry	Acrylic/vinyl hybrid
Solids, by Volume	48%
Mixing Ratio	1K. No mixing needed. Use as received.
Recommended Dry Film Thickness	13+ mils WFT x 2 coats (minimum) = ~12+ mils DFT (recommended)
Service Temperature Range	-20F/-29C to 200F/93C
Application Air Temperature Range	45F/7C - 100F/38C
Cure Time (to handle/pack)	12 hours @ 72F/22C w/ 45% RH.
RPC 7555 is a water based formulation so the warmer and drier the environment the faster the cure. DO NOT let the liquid material freeze.	
Abrasion Resistance – CS17 Abrasive Weraser- 1100 grams weight	1500 cycles
Pot Life	30 minutes at 72F/22C in an open container. Longer in a HVLP gun cup, pressure pot. The warmer the temperature the shorter the pot life.
Color	White liquid, dries to translucent clear.
UV Resistance	Excellent (based on informal outdoor testing).
Impact Strength	Very good (based on informal lab testing).
Water Immersion	Not for immersion service.
Chemical Resistance	Incompatible with aromatic solvents, ketones.
Viscosity	~5000 cps
VOC (as received)	None.



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4. RECOMMENDED SURFACE PREPARATION & APPLICATION GUIDELINES

Wear protective eye wear, skin protection and rubber gloves.

Before the application of RPC 7555, read and understand the Safety Data Sheet (SDS)

Do not thin product. Use as received.

Clean the target substrate to remove contaminants and debris then dry.

- Be sure the edges of the application area are clean.

Mask off the substrate to cover all areas not to receive the coating and adjacent areas from spills or splatters.

Stir well before use with a stir stick.

- Do not shake or mix by any method that will entrain air into RPC 7555.

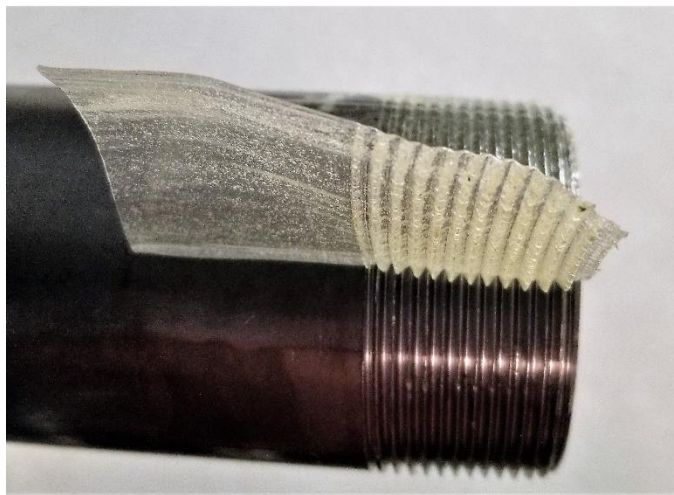
Always apply two coats of RPC 7555.

- Apply the first coat.
- If applying by brush, make sure to work it firmly onto the substrate surface.
- Target wet film thickness is 13+ mils per coat x two coats.
- Be sure the entire target surface is coated, including over the edges.
- Wait until you see the white appearance transition to mostly translucent (usually a minimum of 30 - 45 minutes depending on temperature and humidity) then apply the second coat of 13+ mils wet film thickness.
- The two coats will cure down to the target dry film thickness of ~12+ mils.
- 12 mils is the minimum DFT needed for optimal protection and in order to remove the cured film in one piece.
- If additional thickness is required, repeat the process.



Be sure to maintain the recommended thickness across the entire surface area of the asset being coated. Ensuring an even application will help protect all areas of the substrate and help the product peel off easily and uniformly when cured.

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Remove masking tape while the RPC 7555 is wet. If curing has commenced, wait until the RPC 7555 is fully cured and carefully pull the masking tape 180° backward NOT at a 90° angle to the substrate surface – pulling the tape at a 90° angle may pull the tape edge of the RPC 7555 off the substrate. Lightly score the tape line with a sharp razor blade prior to pulling the masking tape off fully cured RPC 7555.

If the asset is to be placed in outdoor, uncovered storage for longer than 6-8 months, the RPC 7555 should be top coated with our clear, highly cross-linked, aliphatic top coating. This duplex system will provide protection for 10 years outside and will allow the RPC 7555 to be peeled off cleanly when the asset needs to be put into service. Please contact us for more information regarding our aliphatic top coat.

Cleanup: Wipe excess material off of tools with a cloth rag or paper towel. Tools may then be cleaned with soap and water – do not use solvents. Absorb small spills with inert material and dispose of according to local regulations. Rinse spill area with water.

- Alternatively, let RPC 7555 cure and peel off. Dispose of dried coating in accordance with local regulations for non-hazardous solid waste.

5. - PACKAGING, STORAGE AND SHELF LIFE

Packaging:

- One gallon (3.8 liter) container.
- 5-gallon (19 liter) pail.
- 55-gallon (208 liter) drum.

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Storage:

- Store in a cool, dry cabinet or room.
- Store unused material in the original container after displacing the air in the container with an inert gas blanket (such as Bloxygen or PolyPurge)

Shelf life:

- Material has a shelf life of 12 months after the date of manufacture if properly stored unopened at 72F/22C.

NOTE:

- Keep from freezing. Frozen material is no longer useable upon thawing.

6. - REFERENCES

Refer to product TDS and SDS for further information.

7. - CONTACT INFORMATION

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