



HARDNOSE

APPLICATION INFORMATION

**Warning: Please read and understand these instructions thoroughly
- failure to do so can result in premature coating failure and/or a big mess!**

PRODUCT DESCRIPTION

Hardnose is a high gloss rock hard coloured topcoat that can be applied over a number of surfaces, including heavy duty vehicle chassis' and trailers, floor pans, agricultural machinery and many marine applications including motors, heat exchangers, pumps, masts, decks and handrails. Hardnose coatings can also be used to protect equipment from strong acids, alkali and other aggressive materials. It can be applied over existing single and two component primers as well as in a complete POR-15 paint application which would include POR-15 Rust Preventative Paint as a primer and POR-15 Self Etching Primer as an intermediary coat.

Hardnose will not leave brush marks, and will dry in less than 1 hour, but will take 3 or 4 days to reach maximum hardness. When Hardnose is first dry to the touch, it will appear very soft. Avoid touching it for several days until it becomes hard and tough. Accidental contact could damage the surface before full cure has taken place. Like many other POR 15 coatings, Hardnose is a moisture cured coating, which means it is strengthened by exposure to moisture.

PRODUCT COMPOSITION

Your Hardnose purchase consists of two items: 1) a paint can, labelled Hardnose which is the basic resin formulation: and 2) a smaller can, labelled Hardener/Activator. Mix the two products together by blending the two products in a separate, resealable clean container, a clean glass jar works best. Stir the combined contents thoroughly. This will give the two components time to blend and the molecules to link together properly.

IF USING MORE THAN ONE CAN, MIX ALL THE CANS TOGETHER TO ENSURE THE COLOUR IS UNIFORM

Warning: Your can of Hardener/Activator is sealed tightly. Remove lid carefully, cover with a paper towel while prying it off to avoid accidental spillage or splash. Your Hardener/Activator is very sensitive to moisture and humidity, so try to open it in a dry area. Keep it tightly capped when not in use.

PARTIAL MIXES

You may mix partial quantities of Hardnose for small jobs, and you may use any measuring device you happen to have around (coffee scoop, measuring spoons, cups etc.). All you have to do is follow this formula:

Mix 1 part Hardener/Activator with 4 parts Hardnose, mix well.

Hardnose can remain useable for up to 24 hours, if the lid is kept on the mixed batch when not in use, giving a very long pot life.

SURFACE PREPARATION

Will depend on the type of surface you are overcoating and the finish you are looking for. See Below:

Overcoating existing primers.

Hardnose can be overcoated on both single and 2 Pak primers. Clean surface with Marine Clean (ratio of 8 parts water to 1 part Marine Clean) for light contamination. Rinse with clean water, allow to dry. Key with 240 grit paper. Tack wipe with dry tack cloth and paint.

Painting over cured POR 15 Rust Preventive Paint.

Clean with Marine Clean (ratio of 8 parts water to 1 part Marine Clean) for light contamination. Key with 300 grit then apply one light to medium coat of Tiecoat, thin approx. 10%. Allow to cure for 1 - 2 days (longer in cooler temperatures). Sand with 300 grit tack wipe with dry cloth and apply Hardnose as final finish.

As a complete POR 15 paint system.

Apply one to two coats of POR 15 Rust Preventive Paint over a sandblasted surface or a surface prepared with Marine Clean and Metal Ready. Then apply one light to medium coat of TieCoat as soon as POR 15 Rust Preventive Paint has cured to ensure maximum adhesion. Allow tiecoat to cure for 24hrs at 20°C, lightly sand with 300 grit. Wipe down with dry tack cloth and apply Hardnose .



APPLICATION

Apply a minimum of 2 full coats for general automotive use, and a minimum of 3 full coats marine use, (plus a dust or tack coat if spraying). Hardnose may be applied with any type of brush you prefer. It can also be rolled. It will flow out immediately, eliminating brush marks. Lay down a medium covering coat, but be careful to avoid runs. A second coat may be applied when touch dry, usually 15 - 25 minutes later at 20°C, though the second coat may be left up to 2 days before recoating without sanding, **best method**, recoat at 2 - 3 hourly intervals. In temperatures below 18°C drying times will be extended and consequently runs may be more likely. To minimise this in colder temperatures small items can be warmed with a heat gun, or air temperature raised for larger items, do not over heat items above 24°C. You can thin up to 25%, though you will need more coats to retain dry film thickness. Thin only with POR 15 Solvent, if required POR 15 Solvent or lacquer thinners may be used for clean up.

Note, when applying a second or third coat there can be a lot of surface tension between coats, some solvent (no more than 5%) may need to be added to reduce the coating surface tension to allow it to drop and flow out. For best results apply in 18-24°C and less than 70% humidity.

Spray Painting / Spray Booths - Hardnose prefers low pressure application.

Syphon or Pot Gun application use approx. 25 psi (180 kpa).

HV or top container gun use approx. 15 - 18 psi (120 kpa).

At 16°C to 22°C we suggest up to 5-15% thinning, at 22-28°C thin 15-25%, over 10°C thin to conditions. Thin with XYLENE.

Avoid temperatures over 28°C where possible.

Spray Booth, best temperature 22°C, 50% humidity, low air flow.

Remember thinning rates are a guide only, consider also the type of gun, air temperature and humidity.

Hardnose can be cut with regular compounds if you have a run or imperfections, though it is best if you leave it for a week or 2 before cutting to make sure coating is hard (runs may take longer to fully cure due to added thickness).

Humidity Control when spraying Hardnose

Humidity should be 60% or lower when spraying Hardnose because the higher humidity may cause it to set too quickly before it has a chance to flow out evenly, thus resulting in a wavy appearance. This is especially true in high-humidity northern climates in summertime. Whenever possible, spray in a humidity-controlled (air conditioned) environment. Best temperature 18 - 24 °C. If this is not possible apply Hardnose in the morning when temperatures are at their lowest. Hardnose can be applied successfully in higher humidity, but temperatures must be below 25°C. In temperatures over 30° C the humidity must be low. Avoid high humidity and high temperatures.

Curing

Remember Hardnose will not perform as specified until it has cured for a minimum of 4 days, at an average temperature of no less than 18°C, eg. Do not put engine parts and the like into service before the 4 day cure time. Elevated temperatures will not speed up cure.

SOME COLOURS WITHIN THE HARDNOSE RANGE IF APPLIED OVER SOME PRIMERS OR SHINY TOP-COATS MAY PRODUCE SHADOWING OR BASE COLOUR BLEED.

QUESTIONS AND ANSWERS?

Can I apply Hardnose over metal?

Yes, you can but you won't get the same adhesion or leveling as you do with Rust Preventive Paint as a primer.

Can I apply Hardnose straight over POR 15 Rust Preventive Paint with out Tie-Coat?

Yes, you can but, because of the smooth and shiny nature of POR 15 Rust Preventive Paint you can get the colour bleeding through, especially on edges and corners; runs are also more likely.

The information set out in this flyer is, so far as can be ascertained, true and accurate, but all recommendations or suggestions are made without guarantee. Since the conditions of use of the Products sold by Permanent Painted Coatings Limited (New Zealand) ("PPC Limited") and Permanent Painted Coatings Pty Ltd (Australia) ("PPC Pty Ltd") are beyond the control of PPC Ltd / and or PPC Pty Ltd ("the companies"), the Companies to the full extent allowed by law, disclaim any liability with respect to damage, injury or death consequent upon the use of the Products or consequent upon the use of the information contained herein.

The Companies warrant that the Products supplied hereunder shall conform to the description or specification stated in this flyer. The Companies make no warranties that Products supplied are made to certain industry specifications. To the full extent allowed by law, the liability of the Companies with respect to any breach of the aforesaid warranty shall be limited, at the option of the Companies, to payment of the cost of replacing the Products or of acquiring equivalent products and in no case shall the Companies be liable for consequential loss or damage.



Permanent Painted Coatings

PERMANENT PAINTED COATINGS (2009) LTD

P O BOX 5614, Frankton, Hamilton 3242

Email: sales@por15.co.nz

Website: www.por15.co.nz