



# Amercoat 52HS

## Alkyd Finish

### Product Data/ Application Instructions

- **A high solids alkyd resin based protective coating**
- **Easily applied by brush, roller or spray**
- **Excellent maintenance coating, compatible with a wide range of primers and existing coatings**

#### Typical uses

Alkyd topcoat over correctly primed surfaces, exposed to weathering and moderate industrial and marine surfaces. Not suitable for exposure in strong alkaline conditions.

#### Recommended Systems

One or two coats of Amercoat 52 HS at 35 microns  
Over one coat of Amercoat 5105 Primer at 50 microns for the protection of structural steel, exterior storage tanks. Etc. in moderate industrial atmospheres. Other suitable primers may also be used. When applied over zinc silicate primers. Use Amercoat 71 as a tie coat. One coat of Amercoat 52 HS at 50 microns is normally suitable as a decorative finish coat over 50 microns Amercoat 5105 on interior steel surfaces.

#### Resistance Guide

Amercoat 52HS has excellent weather resistance in moderate industrial and marine environments when applied over correctly primed surfaces.  
Amercoat 52 HS has a moderate chemical resistance  
But is not suitable for exposure in strong alkaline conditions. Amercoat 52HS resists normal handling and service conditions when cured.

#### Application Data Summary

For complete information on procedures, equipment and safety precautions see the application instructions accompanying shipment. Like all high performance coatings, Amercoat 52HS must be applied as recommended to obtain the maximum Protection for which this coating is formulated

#### Physical Data

|  |   |
|--|---|
| Finish.....  | gloss   |
| Colour .....   | RAL and BS colours *                                  |
| Components .....   | 1   |
| Curing mechanism .....                                     | solvent release and reaction with oxygen from the air |
| Volume solids .....  | 56% (ASTM D2697, modified)**                          |
| VOC contents.....  | 28% by weight / 358 gram/ liter                       |
| Dry film thickness .....                                   | 35-50 µm per coat                                     |
| Number of coats .....                                      | 1 - 2   |
| Calculated coverage at 35 µm..                             | 16 m <sup>2</sup> /l                                  |
| Allow for application losses, surface irregularities, etc. |   |
| Specific gravity .....                                     | 1.20 kg/l (white)                                     |
| Flash points (Closed Cup).....                             | °C °F   |
| Amercoat 52HS .....  | 42 108  |
| Amercoat 65 .....  | 24 75   |

Note: Amercoat 52HS Aluminum has a recommended dry film thickness of 25 µm

\* Uniform appearance may require two coats, using white as a first coat, when used in a less hiding colour over contrasting primers or intermediate coats. Use a white primer or intermediate coat when only one finish coat in a less hiding colour is specified.

\*\* Volume solids is measured in accordance with ASTM D2697, modified. Slight variations ±3% may occur due to colour and testing variances.

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## Surface Preparation

**NEW SURFACES** - Prepare surface in accordance with the primer to be used. Once primed, surface should be free from any foreign matter (like dust and moisture) before applying Amercoat 52HS.

**PREVIOUSLY COATED SURFACES** - If intact and recently coated with Amercoat primers, Amercoat 52HS or other alkyds : surface should be clean, dry and free from dust.

**OLD OR DAMAGED SURFACES** - Remove dust, contaminants or loose coatings by sanding, power tool cleaning or spot reblasting. Bare substrates should be primed with suitable primer. Apply spot topcoat or full topcoat as required.

## Application Equipment

The following equipment is listed as a guide and suitable equipment from other manufacturers may be used. Adjustments of pressure and change of tip size may be needed to obtain the proper spray characteristics.

**AIRLESS SPRAY** - Standard airless spray equipment with a nozzle orifice of 0.48mm (0.019 inch) at a pressure of 8-12 MPA (approx.80-120 Bar ; 1140–1700 psi)) Thin up to 2 % with the recommended thinner depending on required thickness and application conditions.

**CONVENTIONAL SPRAY** – Standard Industrial equipment with a nozzle orifice of 2-3 mm at a pressure of 0.3 – 0.4 MPA (3-4 bar : 43-57 psi).

Thin up to 10-15 % with the recommended thinner depending on required thickness and application conditions.

**MIXER** - Use power mixer powered by an air motor or an explosion proof electric motor.

**BRUSH** - Natural bristle. Maintain a wet edge.

Thin up to 2 % with the recommended thinner depending on required thickness and application conditions.

## Repair

Spot blast or power tool clean bare substrate to the requirements shown under surface preparation.

Feather edges of intact coating. Remove dust, dirt and contamination before recoating.

## Application Data

Substrate ..... properly primed steel

Application methods ..... airless or conventional spray

Environmental Conditions (during application and drying)

Air temperature: ..... 0 to 50°C      32 - 122°F

Surface temperature: ..... 0 to 60°C      32 - 140°F

Surface temperature must be at least 3°C/5°F above dew point to prevent moisture condensation on the surface. Never apply coatings under adverse environmental conditions. Ensure good ventilation when applied in confined areas to assist evaporation and elimination of solvents.

Drying times (at 50 µm ( dft), °C/°F

|                     | 10/50 | 21/70 | 35/95 |
|---------------------|-------|-------|-------|
| dry to touch .....  | 8     | 4     | 2     |
| dry to handle ..... | 48    | 24    | 12    |

NOTE: drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions. Times are proportionally shorter at higher temperature and longer at lower temperatures. Prior to recoating ensure the surface is clean. Maximum recoating time intervals are dependent on temperature, degree of weathering and service conditions of the complete coating system. Consult your PPG representative for specific recommendations.

Thinner/cleaner ..... Amercoat 65

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## Application Procedure

Amercoat 52HS is a one-component material and is packaged in a 25ltr can.

1. Clean all application equipment with Amercoat 65.
2. Stir all material thoroughly before applying.
3. If thinning is necessary for workability thin with no more than 10 vol% of Amercoat 65.  
For airless spray normally no thinning is required.
4. Spray on heavy wet coat making parallel passes and overlapping each pass 50% Follow with a "cross-spray" pass at right angles to first pass Give special attention to angles. Corners, rough spots, edges etc.. to avoid pinholes. Bare areas and holidays.
5. The application of a wet film thickness of 86 microns (3% mils) will normally provides approximately 50 microns ( 2mils) dry film. Check wet film thickness with a wet film Thickness gauge.
6. Check dry film with non-destructive dry film thickness gauge. Such as Elcometeror Mikrotest.
7. To repair or touch up bare areas', pinholes or holidays, simply apply additional materials; smaller areas may be brushed. Allow 16 hrs at 21°C(70°F) between full coats.
8. In confined areas ventilate with clean air during application and drying until all solvents are removed. Temperature and humidity of ventilating air must be such That moisture condensation will not form on surface.
9. Clean all equipment with Amercoat 65 Immediately after use or at least at the end of each working day or shift.

## Shipping Data

Packaging ..... 25 l (6.6 gal)  
Shipping weight ..... approx. 33.5 kg

Packaging ..... 5 l (1.3 gal)  
Shipping weight ..... approx. 6.7 kg

Shelf life ..... 1 year from shipment date  
when stored indoors in  
unopened, original containers  
at 5 to 40°C (41-104°F).

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## Caution

This product is flammable. Keep container closed. Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to health:

1. circulate adequate fresh air continuously during application and drying;
2. use fresh air masks and explosion proof equipment;
3. prohibit all flames, sparks, welding and smoking.

Do not empty into drains. Take precautionary measures against static discharges. For specific information on hazardous ingredients, required ventilation, possible consequences of contact, exposure and safety measures see Safety Data Sheet.

## Safety

Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods.

## Warranty

PPG warrants its products to be free from defects in material and workmanship. PPG's sole obligations and Buyer's exclusive remedy in connection with the products shall be limited, at PPG's option, to either replacement of products not conforming this warranty or credit to Buyer's account in the invoiced amount of the non-conforming products. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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To avoid any confusion that may arise through translation into other languages, the English version of the Product Data/Application Instructions will be the governing literature and must be referred to in case of deviations with product literature in other languages.

## Condition of Sale

All our transactions are subject to our Terms and Conditions of Sale.