

PolyshieldTopcoat

Polyurethane Topcoat



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PRODUCT DESCRIPTION

Polyshield Topcoat is a polyurethane resin based topcoat.

RECOMMENDED USE

Finishing coat for protection of steel and concrete in adverse climatic conditions, exterior and interior. Salt Water resistant and Quick drying.

FILM THICKNESS AND SPREADING RATE

Typical thickness = Min 50 microns Dft.

Coverage @ 50 microns dft. = 10 to 12 sq. mtr. per ltr.

PHYSICAL PROPERTIES

Colour : According to PATSA colour card or as per RAL codes

Solids (vol %) 65 ± 2(white), Dark Shades 48% ± 2%

Flash point 37°C ± 2 (Setaflash)

Gloss: High Gloss

Gloss retention: Very Good

Water resistance: Very good

Abrasion resistance: Very Good

Solvent resistance: Good

Chemical resistance: Good

Flexibility: Fair

SURFACE PREPARATION

All surfaces should be clean, dry and free from contamination.

Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Patsa office for more information.

Other surfaces

The coating may be used on other substrates. Please contact your local Patsa office for more information.

CONDITION DURING APPLICATION

The temperature of the substrate should be minimum 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure correct drying.

APPLICATION METHODS

Spray Use airless spray

Brush Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

Roller May be used. However when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

APPLICATION DATA

Mixing ratio: Single pack.

Thinner/Cleaner Patsa Thinner No. 7

Guiding data airless spray

Pressure at nozzle 15 MPa (150 kp/cm², 2100 psi)

Nozzle tip 0.46-0.66 mm (0.018-0.026")

Spray angle 40°-80°

Filter Check to ensure that filters are clean.

DRYING TIME

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- Good ventilation (Outdoor exposure or free circulation of air)
- Typical film thickness
- One coat on top of inert substrate

| Substrate temperature | 5°C | 10°C | 23°C | 40°C |
|------------------------|--------|--------|--------|--------|
| Surface dry | 60 min | 45 min | 20 min | 10 min |
| Through dry | 10 h | 9 h | 4 h | 2 h |
| Dry to recoat, minimum | 5 h | 4 h | 2 h | 1,5 h |

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions

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could be included.

TYPICAL PAINT SYSTEM

Acryoxide Red Primer 2 x 80 μm (Dry Film Thickness) (For metal surfaces only)

Polyshield Topcoat 1 x 50 μm (Dry Film Thickness)

Other systems may be specified, depending on area of use

STORAGE

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

HANDLING

Handle with care. Stir well before use.

PACKING SIZE

5 litres and 20 Liters

HEALTH AND SAFETY

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.