

DELTA Prime

2K SD Primer



T E C H N I C A L D A T A S H E E T

Two component solvent driven polyurethane primer

Description

2K SD Primer is a solvent driven polyurethane tie coat for ferrous and non-ferrous substrates. It is designed for use as an adhesion promoting primer on DELTA's membranes. Its uses include the application of a new membrane to an aged membrane e.g. in repair applications. It can also be used on aged membranes when renewing or repairing the UV protective top coat.

Features

- Rapid cure
- Long re-coating interval
- Low viscosity
- Low consumption
- Easy to apply
- Designed for extreme climates
- Increases the service life of the waterproofing system
- Available in various colors
- Can be applied in combination with silica sand on very uneven surfaces.
- No dilution needed
- Significantly increase bond strength and adhesion

Typical uses

- As a primer for use over aluminum, galvanized steel, mild steel, stainless steel and other non-ferrous surfaces
- As an inter-coat primer over DELTA's range of elastomeric coatings
- As a primer on sand broadcasted epoxy primers prior to the application of a spray applied membrane in applications where the membrane is permanently exposed to water



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Product information

Processing properties	Data	
Mixing ratio A : B [by volume]	1 : 1.67	
Pack size (mixed) [ltr]	5	
Mixed specific gravity [kg/ltr]	1.34	
Recommended application methods	Brush, Roller, Airless	
Color options	Grey & Red	
Flash point (ambient) [° C]	Base: 50	Additive 50
Solids by volume [%]	44	
VOC [grams/ltr]	515	
Average pot life [hours]	23° C	35° C
	2	1
Typical thickness [microns]	Dry film thickness: 50	Wet film thickness: 114
Theoretical coverage [m²/ltr]	6	
Average overcoat window [hours]	23° C	35° C
	14	12
Average touch dry [hours]	23° C	35° C
	2	1
Pull off strength [mPa] (ASTM D-4541)	Steel	Concrete
	> 6	> 1.5
Storage conditions (closed original drums, dry & covered place) [° C]	10 – 30	
Shelf life (unopened and stored correctly) [year]	1	

The actual spread rate will vary depending upon the type of substrate coated and the method of application chosen. If the surface to be coated is excessively rough or porous, the spread rate may be significantly reduced. When treating such surfaces, practical tests should be carried out prior to the onset of full scale application

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Surface preparation

- Blast clean to Sa 2½ BS 7079: Part A1: 1989 (ISO 8501-1: 1988). Average surface profile in the range 30-50 µm. Manually prepared surfaces should be to a minimum standard of St 3 BS 7079: Part A1: 1989 at the time of coating. Ensure surfaces to be coated are dry and free from all traces of surface contaminants
- For application onto stainless steel substrates, the surface should be degreased and where ever practical, blast cleaned to Sa 2½ BS 7079: Part A1: 1989 (ISO 8501-1: 1988)
- For application onto cold rolled steel and non-ferrous metals such as galvanized surfaces, degreasing should be undertaken using an emulsifying agent. For optimum adhesion, abrading is recommended

Application equipment

Airless spray

- Nozzle Size: 0.33-0.38mm (13-15 thou)
- Fan Angle: 40°
- Operating Pressure: 155kg/cm² (2200psi)

The airless spray details given above are intended as a guide only. Fluid hose length and diameter, paint temperature and project complexity all have an effect on the choice of spray tip and operating pressure. The operating pressure should be the lowest possible consistent with satisfactory atomization. As conditions vary, it is the applicators' responsibility to ensure that the equipment in use has been adjusted to give optimum performance. In case of any difficulties or queries, please contact DELTA Regional Technical Centre.

Conventional spray

- Nozzle Size: 1.52mm (60 thou)
- Atomizing Pressure: 3.2kg/cm² (50 psi)
- Fluid Pressure: 0.35 – 0.7kg/cm² (5 - 10 psi)

Conventional spray details given above are intended as a guide. It may be found that in some circumstances, slight variations in atomizing pressure, fluid pressure and alteration of tip arrangements may provide optimum atomization.

Brush, roller & squeegee

- The material is suitable for brush, roller & squeegee application.

Recommended top coat

- May be overcoated with any of DELTA's range of products as well as other high-performance epoxies and polyurea systems, provided that the surfaces to be coated have been suitably cleaned
- To achieve optimum adhesion, overcoating must be undertaken within 4 hours

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Application conditions & overcoating

- In conditions of high relative humidity, i.e. 80-85% good ventilation is essential
- Substrate temperature should be at least 3° C above the dew point
- Application temperatures below 10° C; drying times will be significantly extended and spraying characteristics may be impaired
- Application at temperatures below 5° C is not recommended
- To achieve optimum water and chemical resistance; the temperature should be maintained above 10° C
- For application at elevated temperatures, please see the notes below
- To overcoat outside the times stated on the data sheet, please seek the advice of DELTA's Regional Technical Centre

Additional notes

- Drying, curing and pot life times should be considered as a guide only
- The curing reaction of this product commences immediately the two components are mixed
- Reaction being temperature dependent, the curing and pot life will be approximately halved by 10° C increase in temperature and doubled by a 10° C decrease in temperature

Tropical use

- To ensure satisfactory pot life, the temperature of **2K SD Primer** should not exceed 50° C at the time of mixing. Thinning the mixed product at any stage will not extend the working pot life
- Application outside the working pot life, even if the material appears to be fit for use, may result in inferior adhesion properties. The recommended maximum air and substrate temperature for the application of this product is 50° C, providing that the conditions allow for satisfactory application and film formation
- If the air and substrate temperatures exceed 50° C during application, paint film defects such as dry spray, bubbling and pin holing etc. may occur

Packaging

- **2K SD Primer** is supplied in 5 liter sets
 - Component A 3.125 liters
 - Component B 1.875 liters

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own investigations and testing, the suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. These products require specialized equipment and skills to apply. It is the purchaser's responsibility to ensure that they have the necessary equipment, skills and experience to apply these products. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Technical and application information is provided for the purpose of establishing a general profile of the material and application parameters. Test performance results were obtained in a controlled environment and DELTA Coatings International LLC makes no claim that these tests or any other tests can be accurately reproduced in all environments. The rights of the purchaser regarding the quality of our materials follows completely our general terms and conditions. For requirements, which exceed the scope of the above-mentioned applications please contact DELTA technical staff. DELTA Coatings International LLC reserves the right to change or modify the details and data contained herein at any time. Valid is only the actual version of this technical data sheet in each case.

* DELTA recommends that in all applications involving chemicals a pre-test of the lining's suitability in the customer's application is conducted. Consult with DELTA Technical Team.

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