

Flowchem VE Metal Primer

Product description

Flowchem VE Metal Primer is a fast curing, shrinkage compensated and rubber modified vinyl ester based primer.

Features and Key Benefits

- Fast curing
- Shrinkage compensated
- Easy and fast application
- Excellent adhesion to different metal substrates

Product Information

Applications

Flowchem VE Metal Primer is intended for the priming of carbon steel, stainless steel and aluminium prior to the application of Flowchem VE systems.

Certificates/approvals

CE according EN 13813 (when used as part of complete system)

Environment and Health

Follow the appropriate Occupational Health and Safety Guidelines applicable to the location where the application is undertaken.

For more information, please refer to the safety datasheets for the individual components.

Technical Information

Technical Characteristics (liquid state)

Appearance	A: Flowchem VE Metal Primer Resin – brownish liquid B: Flowchem VE Accelerator – purple liquid C: Flowchem VE Curing Agent – transparent liquid
Mixing ratio at +20°C(A/B/C)	100 / 0.3 / 2 by weight
Pot life at +10 / 20°C	90 / 45 min
Density at +23°C (EN ISO 1183)	1.05 kg/dm ³ (mixed A/B/C)
Min. overcoat time at +20°C	2 hours

Technical Characteristics (cured state)

Volume shrinkage at 20°C – Rili4 2.5.3.2.1	< 0.004%
Tensile strength (EN ISO 527)	75 – 80 MPa
Tensile elongation (EN ISO 527)	8 – 10 %
Flexural Strength (EN ISO 178)	125 MPa
Barcol Hardness (ASTM-D2583)	30 - 35 (model GYZJ 934-1)

Colour

Straw brown, gloss

Packaging

The Flowchem VE Primer components are supplied in the following pack sizes:

- Flowchem VE Metal Primer Resin: in lacquered metal drums of 25 kg.
- Flowchem VE Accelerator: in metal cans of 1 kg
- Flowchem VE Curing Agent: in plastic bottles of 1 kg

Storage

Store in dry area, in unopened, original containers in temperatures +5 °C to +25 °C. Protected from freezing, out of direct sunlight, moisture or contaminant ingress.

Shelf-life

Flowchem VE Metal Primer Resin: 6 months from manufacture day when stored correctly in the original, unopened packaging as supplied.

Flowchem VE Accelerator and Curing agent: 9 months from manufacture day when stored correctly in the original, unopened packaging as supplied.

Usage Guidelines

Application conditions

Ambient temperature range:	+5°C - +30°C
Substrate temperature range:	+5°C - +30°C
Ambient relative humidity:	< 95 %
Substrate relative humidity	<4.5 % (Tramex scale or 75% RH BS8203)

- To ensure best application behaviour of material it is recommended to condition the containers for at least 24 hours in +15 °C - +25 °C prior to application.
- The recommended substrate temperature is 15 - 25°C, but not less than 5°C and more than 30°C.
- **During application and initial curing of product, substrate temperature needs to be at least 3°C higher than dew point temperature.**
- To assess possibility of application outside of these conditions or application temperatures, please consult our Technical Department.
- The styrene in the resin component can be smelt at very low concentrations (from 2 ppm onwards). Follow the appropriate national guidelines.

Surface Preparation

The substrate must be clean, free of dust, oil.

Blast the substrate to SA 2.5, SA 3 (90-120µ profile) using 0.4 to 0.6 mm grit (under controlled humidity conditions the priming should be done within 2 hours after surface prep, or rust crystals will start to appear). If rust crystals appear, clean the surface again with acetone to remove them.

For further details see our "General preparation and application guidelines for Flowchem VE floor protection systems".

Mixing

Mix the whole drum of Flowchem VE Metal Primer Resin with an electric drill and paddle to disperse any possible settlement.



Weigh out the required quantity and add 0.3% (b/w) of Flowchem VE Accelerator and mix well for 2 min (Note: the % of the accelerator required can increase at lower temperatures please consult our Technical Department for specific advice).

Add 2% (b/w) of Flowchem VE Curing Agent and continue to mix thoroughly for 2-3 min and then the resin is ready for application.

Note: Never mix the Accelerator directly with the Curing Agent.

Application

Flowchem VE Primer can be applied vertically and horizontally with a lamination roller, brush or spray-up. When the time between priming and coating exceeds 24 hrs, the process needs to be repeated.

Coverage

A coverage of approx. 210 g/m² for standard non-profiled substrates.

Cleaning

Clean using Flowchem VE Equipment Cleaner. **Acetone should be used during the application** to clean the Teflon or Metal deaeration rollers! Not styrene (it will make everything sticky).

Technical Service

Contact Tremco CPG "Country"

Guarantee

Tremco CPG "Country" warrants all goods to be free from defects and will replace materials proven to be defective but makes no warranty as to appearance of colour. The information and recommendations herein are believed by Tremco CPG "Country" to be accurate and reliable.