

HYCHEM E100SS

Epoxy primer



HYCHEM
EPOXY SYSTEMS

HYCHEM E100SS is a low viscosity, low solids epoxy primer designed to increase adhesion of epoxy coating systems to steel. E100SS can also be used on concrete surfaces where high penetration is required.

USE

E100SS is generally used to prime steel surfaces prior to the application of the main coating products or systems.

TYPICAL APPLICATIONS

- Motor workshops
- Aircraft hangars
- Warehouses
- Back of house areas
- Stock and plant rooms

FEATURES AND BENEFITS

- Excellent adhesion to steel and most building materials and compatible to other coating or topping systems.
- Fast drying.

PHYSICAL PROPERTIES (@ 25°C, 50% RH)

Pot life	30 mins
Mix ratio by volume (Resin:Hardener)	1 : 6
Tack free time	4 hours
Recoat time	4 - 24 hours maximum
Application temperature until cured	Minimum 10°C - 30°C Maximum

APPLICATION GUIDELINES

Surface preparation

- Prepare the surface by degreasing and power tool preparation or abrasive grit blasting.
- Most metallic surfaces are quite reactive so coating needs to be applied before deterioration of the surface occurs.
- It is recommended to consult relevant standards on the preparation of steel prior to coating.

Applying

- Apply HYCHEM E100SS by roller at a coverage rate of approximately 12 - 20 sqm per litre
- Allow the primer to cure before applying subsequent coatings.

CLEAN UP

Xylene or MEK can be used for cleaning tools and equipment before the mixed compound begins to harden.

WARNING - ENVIRONMENTAL CONDITIONS

Temperature and the surrounding atmospheric conditions will play a part in the curing process of all epoxy products. Under conditions of low temperatures and high humidity the final cured surface finish can be adversely affected potentially resulting in poor gloss retention, discolouration over time, poor overcoatability and intercoat adhesion. Quite often these conditions will result in

the formation of a white film over the surface often evident after contact with water. This chemical reaction with the atmosphere is commonly referred to as "amine bloom" or "amine blush".

If this occurs then the existing coating will need to be abraded to completely remove the affected surface to ensure the adhesion of subsequent applications. In some cases partial or complete re-priming may be necessary.

To minimise an unsatisfactory cure the following indicative application conditions should be observed with respect to temperature and humidity levels.

21° C and less than 85% humidity

10° C and less than 75% humidity

Attention also needs to be paid to the substrate temperature which should be at least 3-5° C above the dew point during the curing phase.

Industry standards recommend the accurate recording of environmental conditions such as substrate & air temperatures, humidity levels and dew point readings during both the application & curing processes.

If in doubt consult the Hychem technical department for advice.

PACKAGING

Kit size	Component A (Resin)	Component B (Hardener)
3.5 Litre	0.5 Litre	3 Litre
21 Litre	3 Litre	18 Litre

SHELF LIFE

12 months from date of manufacture, stored under shelter at 25°C in the original un-opened container.

SAFETY PRECAUTIONS

- Wear gloves, eye protection, mask and overalls during mixing and application.
- Ensure there is adequate ventilation and avoid breathing the vapour.

Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

Customer Responsibility

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