

Nullifire SC803

REPAIR AND MAINTENANCE GUIDE

Nullifire SC803 intumescent basecoat may be damaged during the construction phase or during the life of the building. It is a relatively simple process to reinstate the coating as part of a maintenance program. The remedial action will depend upon the degree of damage sustained.

REPAIR WORK/RECOATING - PRE BUILDING HANDOVER

Repairs may be required for various reasons, including but not restricted to:-

- Impact damage due to follow on trades
- Water damage (if caused prior to curing of coating)
- Damage to 'exposed to view' coated steel – internal and external

Any defective area will need to be suitably prepared where necessary to ensure that any additional application of primer (if present), intumescent basecoat or top seal is applied onto a surface which is clean, dry and free from any form of contamination.

Where coatings have been damaged it is good practice to ensure that the true extent of any defect has been identified by methods such as abrading the perimeter or by using a scraper to establish that only sound materials remain.

If the primer system is either damaged, defective or becomes damaged during the repair process it should be repaired in line with the manufacturer guidance documents.

Nullifire SC803 basecoat material should then be applied into the repair area ensuring that the section achieves the required thickness criteria for the specified fire rating.

Application of Nullifire SC803 should only be carried out by experienced and competent applicators.

Where Nullifire SC803 basecoat has been applied and requires cosmetic enhancement it may be acceptable to apply fresh materials directly over the existing coating. If the coatings need to be cleaned down this should be done thoroughly by hand or alternatively for more persistent forms of contamination, by abrasion followed by a thorough clean down.

- * Ensure that the full dry film thickness of the existing coating is re-instated.

Note: Repaired areas will be visible in contrast to originally applied materials.

MINOR SCRATCHES $\leq 30\text{mm}^2$

Small scratches and indentations in the surface of the top seal are not serious and can be left until the next maintenance cycle, when the damaged areas can be cleaned of any loose material or contamination and further top seal applied. It may be necessary to re-coat the whole area due to a difference in colour which may occur between the fresh top seal and the existing aged coating.

The above would not apply to surfaces which are not top sealed.

If scratches are larger in area than 30mm^2 , we would recommend that they are repaired as soon as practicable. This will ensure that the fire performance is maintained and also the longevity of the system.

Note: In the absence of airless spray equipment and for the purpose of touching up minor defects on small areas on site, a blade on application* may be suitable for Nullifire SC803.

* Be aware that there will be a noticeable difference in the surface profile i.e. texture, if a blade on repair is used instead of airless spray application.

LOCALISED AREAS > 30mm² to ≤ 150mm²

Damaged areas of the basecoat, which do not exceed 150 mm², can be repaired using the basecoat material by airless spray applying the designated wet film thickness over multiple applications to reinstate the original dry film thickness.

The surface preparation required prior to repair is dependent on the nature of the damage to be repaired.

If the damage is more severe, resulting in damage to the primer system exposing bare steel, then the primer should be re-instated and allowed to dry, prior to any repair process. It may be necessary to remove a further area of basecoat surrounding the exposed steel to facilitate primer touch-up depending on the scale of damage. It may be necessary to re-coat the whole area due to a difference in colour which may occur between the fresh top seal and the existing aged coating.

AREAS >150mm²

Substantial areas of damage, which are larger than 150 mm² should be repaired as soon as possible as these could affect the fire resistance. The affected area should be cut back, re-primed as above, and fresh basecoat applied. All areas of repaired basecoat should be sealed with the relevant top seal if applicable.

Nullifire SC803 basecoat should only be coated with approved top seals. Applying other coatings could cause adhesion or curing issues and may affect the fire performance of the product.

REDECORATION

In order to redecorate if required, clean the existing top seal to remove any surface contamination or oxidization and re-apply a further coat in the required colour. Note that only approved top seals should be used in order to maintain the fire rating of the coatings.

ONGOING MAINTENANCE

Internal Steel

Concealed locations, which are accessible, only require a maintenance inspection if there is a likelihood of physical damage occurring that would require repair/recoating in accordance with the procedures as previously noted. 'Exposed to View' steel which may be subject to damage through impact/abrasion or normal wear and tear due to being located in trafficable areas (e.g. columns in shopping malls, airports etc.) should be visually inspected on a regular basis. Any damaged areas greater than 30mm² should be repaired in accordance with the abovementioned procedures.

All products should be applied in accordance with the manufacturers application instructions. For project specific advice, please contact Permax.