

REPORT

Elastogran



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Title: Primer evaluation, PR Epoxy, standard cure
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Description

This has been done to evaluate the use of the primer PR Epoxy standard cure in combination with the Techcoat SNC 4205 D on concrete.

Note: This test has NOT been done to evaluate the use of primer on concrete but to evaluate the combination between primer and coating

Test setup

A concrete surface will be treated with 2 layers of primer, 2nd layer with sand, and then coated with the Techcoat SNC 4205 D, afterwards the adhesion will be tested according ASTM D 4541

Test data

Substrate data

Concrete tile I, B25 quality, moisture content (Tramex) 3,3 %

Due to the quality of the tile and the surface condition no mechanical pretreatment has been done, the surface has only been blown off with air to remove dust from the surface and pores.

Environmental data

Air temperature: 22,3 °C
Relative humidity: 34,8 %
Dew point: 4,5 °C
Surface temperature: 20,8 °C

Primer data

Name: PR EPOXY STANDARD CURE
Supplier: PR EPOXY
Type: 2K epoxy
Remark: Material has been supplied in a ready to mix quantity 1000 gram base and 500 gram hardener. Therefore the mixing ratio has been determined at 100 : 50

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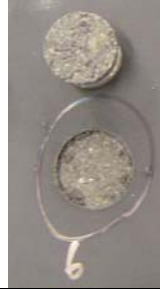

Application data

- 1st layer The primer is roll applied on the concrete surface.
2nd layer The next layer is applied after aprox 5 hours
This layer is sanded in with an aggregate, Sikadur 501 (0,3 – 1,2 mm)
3rd layer The Techcoat SNC 4205 D is applied onto this surface after 20 hours.

Adhesion data

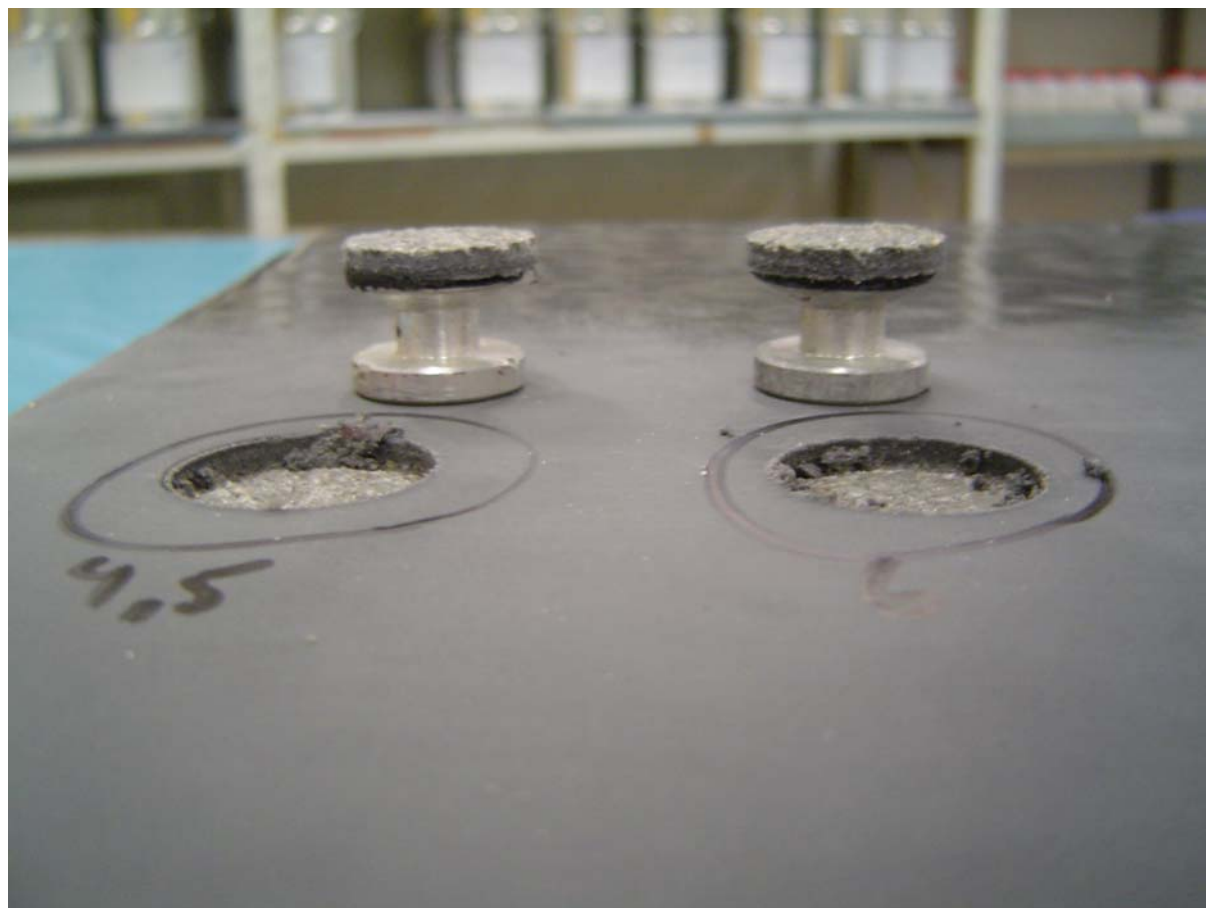
After 24 hours adhesion has been tested according ASTM D 4541.

Dolly	Adhesion [N/mm-2]	Break
1	4,5	Substrate failure
2	6	Substrate failure
3	4,5	Substrate failure

Dolly 1		
Dolly 2		
Dolly 3		

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Conclusion

Adhesion levels are well above the accepted values, therefore the only possible conclusion is that the PR EPOXY STANDARD CURE can be used as a primer for the Techcoat SNC 4205 D, if applied the same way as described in this report.

NOTE : This report does not evaluate the usefulness of the primer on various substrates and condition in which it can be applied.

REPORT

Our recommendations, both verbal and in writing as well as based on tests, concerning the use of the products are provided to the best of our knowledge and belief but they should be regarded as an instruction without engagement, also in respect of any protective rights of third parties, and they do not relieve you of a private examination of the products delivered by us as to them being suitable for the processes and objectives aimed at.

Application, use and processing of the products are taking place beyond our possibilities of checking and these activities, therefore, are entirely within the scope of your responsibility. If nevertheless, there might be any question of liability such liability will for all claims be restricted to the value of the goods delivered by us and operated by you.

It stands to reason that we guarantee the sound quality of our products in accordance with our General Conditions of Sale and Delivery; such guarantee does not cover experimental products. Experimental products are classified by a <D> at the end of the system number.

The processes described in this instruction for testing the behaviour of polyurethane in case of fire and the results noted do not allow any direct conclusions as regards a possible risk of fire when applied in practice.