

# Stobicoat® N 2070

## General Product Information

A solvent free, semi-rigid, moisture curing, one component polyurethane binder based upon an aliphatic resin. **Stobicoat® N 2070** is designed as a binder for tough indoor stone carpets and decorative outdoor resin bound aggregate applications. The binder uses aliphatic components for superior UV resistance and 'water white' colouration.

Recommended object and working temperature	5 – 35 °C
Minimum air and ground temperature required	5°C
Relative humidity	40 – 90 %

## Curing profile

Only open a sealed container of **Stobicoat® N 2070** when ready to use. Firmly replace lid of container when not in use. Once a container has been opened, consume within 1-2 days.

In cold conditions (temperature between 5°C and 10°C) the curing of the binder can be accelerated by adding up to 0.7% accelerator **N 2070 Catalyst** (amount based on binder weight). For example, a maximum of 45g of Catalyst can be stirred into 6.5 kg of N 2070. Ensure the catalyst is mixed thoroughly (2-3 minutes) with the N 2070 before mixing with aggregate.

Accelerators should only be used when necessary and must not be used in wet conditions. The lowest amount of catalyst that reaches the desired effect should be used.

Use a force action mixer to blend binder with the aggregate until an even, homogenous coating has been achieved. The mixed resin / aggregate should be used **immediately**; if it is left, gelation will begin to occur making the spreading of the aggregate increasingly difficult. The maximum time for use of a mixed kit is approximately 30 minutes.

Curing takes place at ambient temperature by reaction with atmospheric moisture. Higher temperatures and moisture and the use of catalysts will shorten the cure time. The surface can be walked on after 15-24 hours at 20 °C. Full curing is reached after 3-5 days. In dry conditions (relative humidity < 50%) the freshly laid resin bound surface may take longer to reach full cure, alternatively a light water spray or misting over the surface maybe considered.

## Mixing with Aggregate

It is recommended that two different aggregate sizes are used to provide the most stable and strong surface along with effective permeability. A typical composition would be:

- 3 x 25 kg 3 – 5 mm aggregate\*
- 1 x 25 kg 1 – 3 mm aggregate\*
- 6.25 kg kiln dried sand or crushed glass (0.2-0.6 mm) (to improve slip resistance)
- 6 – 6.5kg Stobicoat N 2070\*\*

\*Aggregate is dry with low dust content.

\*\*For further application advice please contact your technical representative

## Weather

It is vital that **Stobicoat® N 2070** is used only in dry conditions. The application surface must be dry and free from contamination and must be protected from the rain during application and curing. Water contamination during curing can lead to failure of the system. Ensure the aggregate is kept dry is stored in a dry location.

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**Water is detrimental to the system; excess can lead to foaming, failure to cure, and overall weakness.**

During the summer months, care should be made to shade the application area to keep it cool prior to application. The resin should not be left in the sun as this could potentially lead to rapid curing of the mixture and failure to spread the aggregate mix.

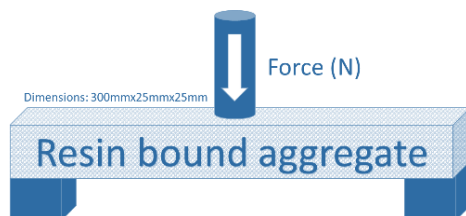
## Installation

**Stobicoat® N 2070** is designed to be mixed with dry aggregate and spread on a firm, uniform compacted sub-base; for example, asphalt or concrete, at a minimum thickness of 3 times the largest aggregate size. N.B. Excessive compaction will reduce permeability. To seal the sub-base and increase adhesion, the use of primers such as Stobielast® S080 (solvent free) or Stobielast® S100 (contains solvents) are recommended.

## Typical Cured Properties

The following values are not intended for use in preparing specifications, for technical and sales please contact your local Stockmeier Urethanes sales office or representative.

Mechanical properties of cured resin bound aggregate:



### Flexural strength:

100 kg of typical dry aggregate (25% 1-3mm & 75% 2-5mm) mixed with the following weights of binder:

**6.5 kg = 6.9 N/mm<sup>2</sup>**

**6.0 kg = 6.4 N/mm<sup>2</sup>**

**5.5 kg = 5.4 N/mm<sup>2</sup>**

## Ancillary Products

Primer - Stobielast® S080 (solvent free) or Stobielast® S100 (contains solvents)

To assist with installation of the mixture, Z 1965 Cleaner can be used on equipment such as rakes and trowels to prevent the resin from sticking. Under no circumstances should water be used to clean the equipment.

## Packaging

6.5kg & 26kg containers. Other sizes available on request.

## Material Consumption

Variable according to the aggregate type and depth of application.

Typical coverage based upon 15 mm depth is ca. 4 metres squared using 100kg of aggregate and 6.5 kg of **Stobicoat® N 2070**.

Z 1965 Cleaner – for assisting spread of mixture with equipment, such as rakes and trowels.

N 2070 Catalyst – for application temperatures below 15°C

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### Storage

**Stobicoat® N 2070** should ideally be stored between 15°C and 25°C. Do not store below +5°C or above 40°C. Keep in original containers and mix well before use after long periods of storage.

Protect from sunlight and humidity. Original closed containers can be stored for at least 6 months at ambient temperature.

### Other information

Do not walk on the surface within 24 hours of laying. It is recommended that 3 days should pass before driving a vehicle on the surface.

It is advisable to do a test piece prior to installation. For further processing and application information please contact our technical department.

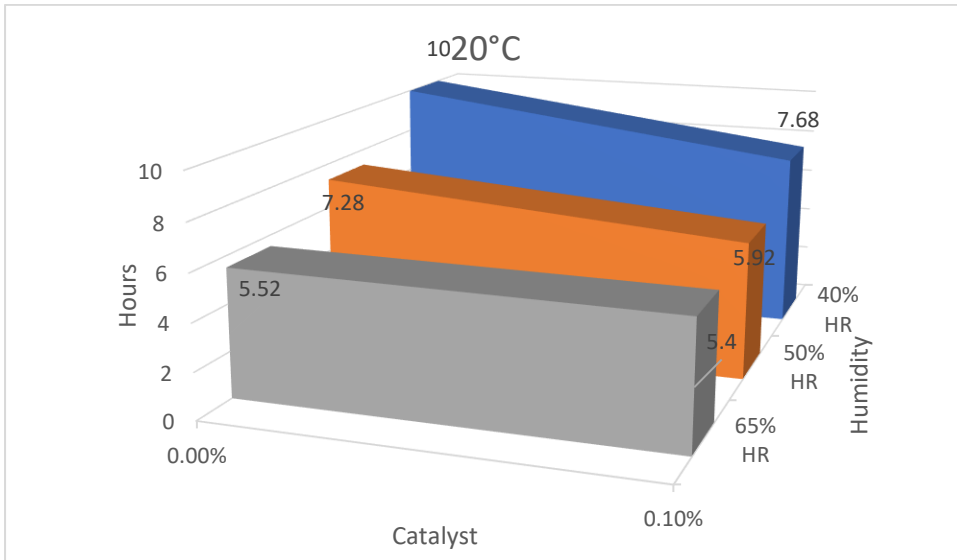
### Modifying the cure speed – N 2070 Catalyst

Cold weather and low humidity levels can significantly increase the cure time of this material. The lower the temperature, the longer the time taken for the product to set. It is therefore recommended that a catalyst addition should be made to decrease the cure time to maintain the product's performance. The addition should be made to N 2070 and thoroughly mixed prior to adding aggregate. The table below is a guide to the levels of additional catalyst required at different ambient temperatures.

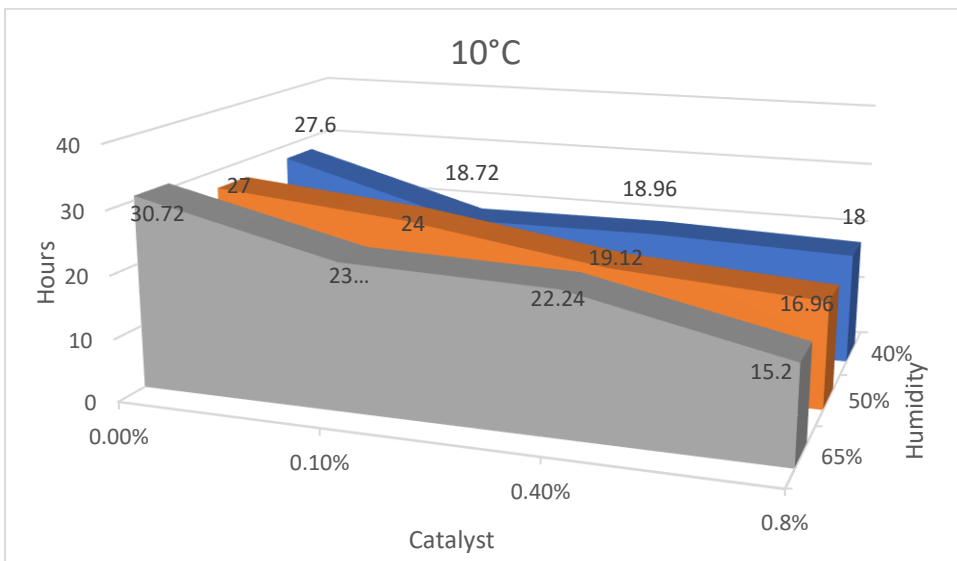
Ambient Temperature / °C	Addition to N 2070 ISO
15 - 10	Addition of 0.2 - 0.4% parts by weight (e.g., max 26ml / 6.5kg)
10 - 3	Addition of 0.4 - 0.8% by weight (e.g., max 45ml / 6.5kg)

NB: Care needs to be taken with the addition; too much will speed up the working time; too little can lead to a weak finish. It is advisable to do a test piece prior to application.

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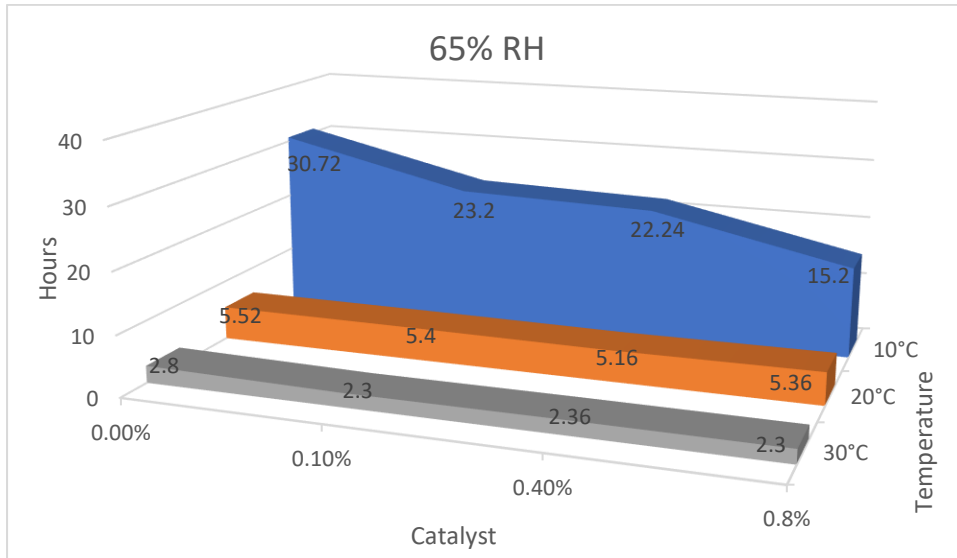


Typical drying times when catalyst and humidity are varied at 20°C



Typical drying times when catalyst and humidity are varied at 10°C

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Typical drying times when catalyst and temperature are varied at 65% relative humidity

### Limited Warranty

All provided information concerning our products, including but not limited to, any recommendations and advice relating to the application and use of our products, is given in good faith based on our current experience and knowledge of its products when properly stored, handled, and applied under normal conditions in accordance with our instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of our control are such that we assume no liability for the provision of such information, advice, recommendations, or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations, or instructions related to its products. The user of our product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s) and that any chemical compounds or use thereof are not subject to a claim by a third party for infringement of any patent or other intellectual property right.

The Technical Information Sheet is to be used as a guide only. Liability for correct installation lies with the contractor and not with Stockmeier Urethanes. Stockmeier is a manufacturer and not an application contractor. It is the responsibility of the contractor to ensure correct practices are followed.

Stockmeier Urethanes' sole warranty is that our products sold will meet the sales specifications in effect at the time of shipment.

For additional information please contact your local Stockmeier Urethanes representative.

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