

# Stobicoat<sup>®</sup> N 2072

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## General Product Information

A solvent free, semi-rigid, two component polyurethane binder based upon an aromatic resin. **Stobicoat<sup>®</sup> N 2072** is designed as a binder for tough indoor stone carpets and decorative outdoor resin bound aggregate applications. The binder consists of aromatic components that can darken over time when exposed to sunlight and is recommended for use with darker stone blends.

The performance of **Stobicoat<sup>®</sup> N 2072** will vary under different conditions, therefore careful attention must be taken to follow the application instructions to avoid product failure. The following is a guide to how different variables affect the product's performance.

## Mixing

When adding Part B to Part A, ensure that it is thoroughly drained out of the container. Failure to do so could result in unsuccessful curing of the system leading to a weaker overall strength.

All parts of the system must remain in its original packaging to ensure the **correct ratio** of components are used so that a strong cure can be achieved.

Mixing of the resin should be carried out with a motorised paddle mixer at a medium speed for a minimum of 2 minutes. **N.B.** at low temperatures the viscosity of the resin significantly increases making mixing more difficult. It is therefore recommended that mixing should be carried out for a minimum of 3 minutes at temperatures below 15°C. Always ensure the sides and bottom of the mixing container are scraped into the mixture. Ensure each batch is mixed in the same way for the same amount of time to give a consistent finish after curing.

Once the resin has been mixed use a force action mixer to blend with the aggregate. The mixed resin should be used **immediately**; if it is left in the bucket gelation will begin to occur making coating and application of the aggregate very difficult. The maximum time for use of a mixed kit is approximately 30 minutes.

**Stobicoat<sup>®</sup> N 2072** is provided in a 7kg kit size to which 100kg of aggregate is added, as a standard mixing ratio. Too little aggregate may affect the drainage potential of the cured system. It is recommended that two different aggregate sizes are used to provide the most stable and strong surface along with effective permeability.

The surface will be tack free within 5 - 7 hours. The surface is generally walkable after 24 hours with total cure after 3-5 days.

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## Ambient Temperature

It is recommended that **Stobicoat<sup>®</sup> N 2072** is only used between the temperatures of 5°C and 35°C. However, between these temperatures, there will be a range of cure times. The colder the temperature, the longer it will take to set and at higher temperatures it will set more quickly making the window of time to work with the material smaller. It is recommended that a catalyst is added at low temperatures to speed up the pot life. Please refer to the '**Modifying the cure speed**' section of this document for further information on the addition amounts at different temperature ranges.

## Modifying the cure speed – N 2072 Catalyst

Cold weather 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 Part A and thoroughly mixed before Part B is added. The table below is a guide to the levels of additional catalyst required at different ambient temperatures for a **7 kg kit**.

Ambient Temperature / °C	Addition to Part A of a 7 Kg kit
13 - 16	0.5 - 1 capful*
9 - 12	1 - 2 capfuls*
5 - 8	2 - 4 capfuls*

\*Capful(s) = lid of 600ml catalyst bottle; 1 capful is approximately 10g

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.

## Weather

It is vital that **Stobicoat<sup>®</sup> N 2072** 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.

**Water is detrimental to the system; it 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.

## Stobicoat® N 2072

### Installation

**Stobicoat® N 2072** is designed to be mixed with dry aggregate and spread on a firm, uniform 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.

To assist with installation of the mixture, Z 1965 Cleaner or white spirit 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

7 kg kits. Other sizes available on request.

### 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 cured properties of the resin system:

	Result	Standard
Shore Hardness	71 D	DIN 53505
Elongation at Break	180 %	DIN 53455
Tear Strength	128 N / mm	DIN 53356
Tensile Strength	28 MPa	DIN 53455

### Ancillary Products

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

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

N 2072 Catalyst – for application temperatures below 15°C

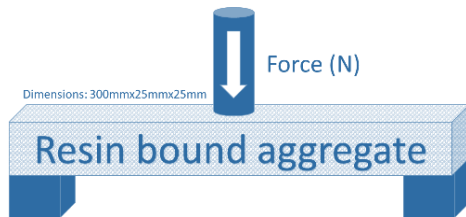
### Material Consumption

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 7 kg of **Stobicoat® N 2072**.

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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:

**7 kg = 3.4 N/mm<sup>2</sup>**

## Storage

**Stobicoat<sup>®</sup> N 2072** should ideally be stored between 15°C and 25°C. Do not store below +5°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 48 hours 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.

## 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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