

# THIXCIN® GR

Rheological Additive  
for Solvent-Based Systems and Polyester Putties

## GENERAL INFORMATION

**THIXCIN GR** additive is a white, non-discolouring, readily dispersible, inorganically modified organic thixotrope.

**THIXCIN GR** is a 50 % active, finely divided powder with a reduced tendency for lumping. It is easy to disperse and efficiently provides viscosity, thixotropy and sag control.

## CHEMICAL & PHYSICAL PROPERTIES

Composition	inorganically modified derivative of castor oil
Color / Form	white finely divided powder
Density	1.47 g/cm <sup>3</sup>

These are typical properties not to be used for specification purposes.

## APPLICATIONS

- Polyester putties
- Adhesives and Sealants
- Solvent-free epoxy systems
- Architectural finishes
- Stains
- Gelcoats and surfacers based on unsaturated polyesters
- Underbody coatings

## KEY PROPERTIES

- Provides viscosity control and thixotropy
- Is easy to disperse and suitable even for poor dispersion conditions
- Promotes pigment suspension
- Provides sag control without impairing flow and levelling
- Produces optimum levelling
- Offers excellent package stability

## INCORPORATION

**THIXCIN GR** rheological additive should be added at the beginning of the dispersion process, preferably by pre-mixing in the solvent/binder for about 5 minutes before other components are added.

A minimum temperature of about 43 °C (110 °F) is necessary to properly build the thixotropic structure. If a 55 °C (130 °F) temperature is exceeded, soft gel-like particles may appear on return to room temperature. The presence of aromatic solvents lowers this upper temperature limit. Should this limit be exceeded, the formation of particles can be prevented by mild continuous stirring during cooling to 45 °C (113 °F) or below.

Within the prescribed temperature range, **THIXCIN GR** rheological additive should be subjected to as much shear as possible during processing. The more intense the dispersing or grinding action, the more pronounced and immediate is the effect.

## LEVELS OF USE

Filled polyester putties for example, typical levels of use for **THIXCIN GR** may vary between 1 and 6 % by weight of the total formulation.

For lower-viscosity systems like coatings, a starting level of **THIXCIN GR** may be between 0.4 and 1.5 % by weight.

## HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

## STORAGE RECOMMENDATIONS

**THIXCIN GR** should be kept in a cool, dry location. Avoid stacking pallets in hot climates.

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## THIXCIN® GR

### SHELF LIFE

THIXCIN GR has a shelf life of 4 (four) years from date of manufacture.

### QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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